

FIG. 3

File Name CoalPer031601
Project Name Sample Project

Location USA

Operator To Be Determined

Facility Generation Information (per unit information):

122 — Unit Gross Output (Input 0 If N/A)

| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Unit 8 |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 373 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

House Load

TYPICAL

124

126 — Type of Unit

PULVERIZED COAL

▼

Existing Operational Hours From CO 148,920 0 0 0 0 0 0 0

Dispatch Information

Unit 1

| Percentage of Available Hours Dispatched | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|--|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| January | 100.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| February | 100.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| March | 100.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| April | 100.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| May | 100.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| June | 100.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| July | 100.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| August | 100.00% | 95.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| September | 100.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| October | 100.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| November | 100.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| December | 100.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |

FIG. 4

120

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| Dispatched Load | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|-----------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| January | 95.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| February | 95.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| March | 95.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| April | 95.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| May | 95.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| June | 95.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| July | 95.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| August | 95.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| September | 95.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| October | 95.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| November | 95.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| December | 95.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |

FIG. 5

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Unit 2

| <u>Percentage of Available Hours Dispatched</u> | | | | | | | | | | | |
|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> |
| <u>Dispatched Load</u> | January | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | February | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | March | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | April | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | May | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | June | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | July | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | August | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | September | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | October | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | November | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | December | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| <u>Dispatched Load</u> | January | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | February | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | March | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| | April | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | May | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | June | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | July | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | August | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | September | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | October | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | November | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | December | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |

FIG. 6

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| Unit 3 | | Percentage of Available Hours Dispatched | | | | | | | | | |
|-----------------|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| Dispatched Load | January | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | February | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | March | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | April | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | May | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | June | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | July | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | August | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | September | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | October | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | November | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | December | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| Dispatched Load | January | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | February | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | March | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| | April | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | May | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | June | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | July | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | August | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | September | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | October | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | November | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | December | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |

FIG. 7

Unit 4

| <u>Percentage of Available Hours Dispatched</u> | | | | | | | | | | | |
|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> |
| Dispatched Load | January | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | February | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | March | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | April | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | May | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | June | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | July | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | August | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | September | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | October | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | November | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | December | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| <u>Dispatched Load</u> | | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> |
| Dispatched Load | January | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | February | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | March | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| | April | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | May | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | June | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | July | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | August | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | September | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | October | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | November | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | December | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |

FIG. 8

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| Unit 5 | | Percentage of Available Hours Dispatched | | | | | | | | | |
|-----------|---------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Dispatched Load | | | | | | | | | |
| | | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| January | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| February | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| March | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| April | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| May | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| June | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| July | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| August | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| September | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| October | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| November | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| December | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| January | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| February | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| March | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| April | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| May | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| June | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| July | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| August | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| September | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| October | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| November | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| December | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |

FIG. 9

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| Unit 6 | | | | | | | | | | | |
|--|---------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Percentage of Available Hours Dispatched | | | | | | | | | | | |
| | | Dispatched Load | | | | | | | | | |
| | | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| January | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| February | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| March | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| April | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| May | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| June | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| July | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| August | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| September | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| October | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| November | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| December | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| Dispatched Load | | | | | | | | | | | |
| January | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| February | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| March | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| April | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| May | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| June | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| July | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| August | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| September | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| October | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| November | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| December | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |

FIG. 10

Unit 7

| <u>Percentage of Available Hours Dispatched</u> | | | | | | | | | | | |
|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> |
| Dispatched Load | January | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | February | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | March | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | April | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | May | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | June | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | July | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | August | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | September | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | October | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | November | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | December | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | | | | | | | | | | | |
| Dispatched Load | January | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | February | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | March | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| | April | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | May | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | June | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | July | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | August | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | September | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | October | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | November | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | December | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |

FIG. 11

Unit 8

| <u>Percentage of Available Hours Dispatched</u> | | | | | | | | | | | |
|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> |
| Dispatched Load | January | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | February | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% | 93.00% |
| | March | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | April | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | May | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | June | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | July | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | August | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |
| | September | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | October | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | November | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| | December | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% | 94.00% |
| Dispatched Load | January | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | February | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | March | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| | April | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | May | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | June | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | July | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | August | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | September | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% | 99.00% |
| | October | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | November | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |
| | December | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% | 98.00% |

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FIG. 12

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Fuels Information: 142

ACTUAL ANALYSIS ▼

Moisture & Ash Free

| | |
|----------|--------|
| Carbon | 74.66% |
| Hydrogen | 5.26% |
| Nitrogen | 1.08% |
| Chlorine | 0.02% |
| Sulfur | 1.31% |
| Oxygen | 18.24% |

Proximate (Sulfur Free)

| | |
|-----------------|--------|
| Fixed Carbon | 34.00% |
| Volatile Matter | 30.70% |
| Moisture | 29.80% |
| Ash | 5.60% |
| Excess Air | 20.00% |
| HHV | 9.500 |

Ash Mineral Analysis

| | |
|------------------------------|--------|
| Silica - SiO2 | 31.00% |
| Alumina - Al2O3 | 14.00% |
| Titania - Ti2O3 | 1.10% |
| Ferric Oxide - Fe2O3 | 6.60% |
| Lime - CaO | 24.60% |
| Magnesia - MgO | 6.00% |
| Potassium Oxide - K2O | 0.26% |
| Sodium Oxide - Na2O | 1.30% |
| Sulfur Trioxide - SO3 | 12.20% |
| Phosphorous Pentoxide - P2O5 | 0.70% |
| Undetermined | 2.30% |

Operational Information:

Cycle ACTUAL CYCLE VALUES ▼

144

| | Superheater Flow (#/hr) | Outlet Pressure (psig) | Outlet Temperature |
|--------|-------------------------|------------------------|--------------------|
| Unit 1 | 2,568,331 | 2,400 | 1,000 |
| Unit 2 | | | |
| Unit 3 | | | |
| Unit 4 | | | |
| Unit 5 | | | |
| Unit 6 | | | |
| Unit 7 | | | |
| Unit 8 | | | |

140

FIG. 13

14/64

| | | Reheater Flow (#/hr) | Inlet Pressure (psig) | Outlet Pressure (psig) | Inlet Temperature (F) | Outlet Temperature (F) |
|---------------------------|--|----------------------|-----------------------|------------------------|-----------------------|------------------------|
| Unit 1 | | 2,254,665 | 639 | 574 | 660 | 1,000 |
| Unit 2 | | | | | | |
| Unit 3 | | | | | | |
| Unit 4 | | | | | | |
| Unit 5 | | | | | | |
| Unit 6 | | | | | | |
| Unit 7 | | | | | | |
| Unit 8 | | | | | | |
| Feedwater Temperature (F) | | 146 | | | | |
| Unit 1 | | 490 | | | | |
| Unit 2 | | 0 | | | | |
| Unit 3 | | 0 | | | | |
| Unit 4 | | 0 | | | | |
| Unit 5 | | 0 | | | | |
| Unit 6 | | 0 | | | | |
| Unit 7 | | 0 | | | | |
| Unit 8 | | 0 | | | | |
| Stack Temperature (F) | | 148 | | | | |
| ACTUAL | | ▼ | | | | |
| Unit 1 | | 275 | | | | |
| Unit 2 | | 0 | | | | |
| Unit 3 | | 0 | | | | |
| Unit 4 | | 0 | | | | |
| Unit 5 | | 0 | | | | |
| Unit 6 | | 0 | | | | |
| Unit 7 | | 0 | | | | |
| Unit 8 | | 0 | | | | |

140

FIG. 14

15/64

Facility Equipment Information:

Flyash Control Equipment 162

| | | |
|--------|----------------------------|---|
| Unit 1 | BAGHOUSE | ▼ |
| Unit 2 | ESP | ▼ |
| Unit 3 | BAGHOUSE PLUS GORETEX BAGS | ▼ |
| Unit 4 | ESP | ▼ |
| Unit 5 | ESP | ▼ |
| Unit 6 | ESP | ▼ |
| Unit 7 | ESP | ▼ |
| Unit 8 | ESP | ▼ |

SO2 Control Equipment

164

| | | | | |
|--------|------------------|---|------|---|
| Unit 1 | SCRUBBER | ▼ | LIME | ▼ |
| Unit 2 | NO SO2 EQUIPMENT | ▼ | LIME | ▼ |
| Unit 3 | DRY INJECTION | ▼ | LIME | ▼ |
| Unit 4 | NO SO2 EQUIPMENT | ▼ | LIME | ▼ |
| Unit 5 | NO SO2 EQUIPMENT | ▼ | LIME | ▼ |
| Unit 6 | NO SO2 EQUIPMENT | ▼ | LIME | ▼ |
| Unit 7 | NO SO2 EQUIPMENT | ▼ | LIME | ▼ |
| Unit 8 | NO SO2 EQUIPMENT | ▼ | LIME | ▼ |

160

FIG. 15

106080" E28E860

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166

Mercury Control Equipment

| | | |
|--------|------------------|---|
| Unit 1 | ACTIVATED CARBON | ▼ |
| Unit 2 | NO HG CONTROL | ▼ |
| Unit 3 | NO HG CONTROL | ▼ |
| Unit 4 | NO HG CONTROL | ▼ |
| Unit 5 | NO HG CONTROL | ▼ |
| Unit 6 | NO HG CONTROL | ▼ |
| Unit 7 | NO HG CONTROL | ▼ |
| Unit 8 | NO HG CONTROL | ▼ |

168

NOx Control Equipment

| | | |
|--------|-----------------|---|
| Unit 1 | SCR | ▼ |
| Unit 2 | LOW NOX BURNERS | ▼ |
| Unit 3 | SNCR | ▼ |
| Unit 4 | LOW NOX BURNERS | ▼ |
| Unit 5 | LOW NOX BURNERS | ▼ |
| Unit 6 | LOW NOX BURNERS | ▼ |
| Unit 7 | LOW NOX BURNERS | ▼ |
| Unit 8 | LOW NOX BURNERS | ▼ |

170

Pricing Information:

Coal Pricing

| | |
|----------------|---------|
| FOB Mine | \$15.00 |
| Transportation | \$15.00 |
| | \$30.00 |

160

FIG. 16

202

STEAM CONDITIONS:

Without QF Steam

Superheater Flow: 2,568,331
Reheater Flow: 2,254,665

With Equiv. QF Steam

2,568,331 lb/hr
2,254,665 lb/hr

204

| Inlet Conditions: | | Superheat | Reheat |
|-----------------------|-------|-----------|--------|
| Steam Pressure - psia | 2,470 | 639 | |
| Steam Quality | 0 | | |
| Water/Steam Temp. - F | 490 | 660 | |
| Enthalpy | 476 | 1,325 | |
| Outlet Conditions: | | | |
| Steam Pressure - psia | 2,415 | 589 | |
| Steam Temp. - Deg. F | 1,000 | 1,000 | |
| Enthalpy | 1,460 | 1,518 | |
| Heat Input | 984 | 192 | |

208

| QF HEAT LOSS | | No Loss | |
|--------------------------|---------|---------|-------|
| Pounds Per Hour | 0 | | |
| Pressure - psia | 464,696 | | |
| Temperature | 460 | | |
| Degrees of SH | 50 | | |
| QF Steam Enthalpy | 1243.18 | | |
| FW Enthalpy | 476.14 | | |
| Heat Loss - Btu's | 0 | | Btu's |
| Increase in Steam - #/hr | 0 | | #/hr |
| | 0.00% | | |
| Equiv. Output - MW | 373 | | MW |

210

| No Loss | Included |
|---------|----------|
|---------|----------|

Pounds Per Year 0.0000E+00

Reheat-To Superheat Ratio 0.877871661

| MCR | Partial Load |
|------|--------------|
| 2.55 | 0.0000 |
| >55 | 0.9589 |

206

FIG. 17

190

190

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| FUEL FIRED PER HOUR | | lb/hr | TPH | % | t/yr | tonnes/hr | tonnes/yr |
|---|--|-----------|-----|--------|-----------|-----------|------------|
| AVERAGE LOAD CONDITION DURING AVAILABLE HOURS | | | | | 418,234 | 190 | 396,065 |
| AVAILABLE HOURS | | | | | 209.12 | | 198.03 |
| FUEL FIRED PER YEAR | | | | | 100.00% | | 95.00% |
| | | | | | 8,256 | | 8,256 |
| | | | | | 1,726,472 | | 1,634,955 |
| TOTAL COMBUSTION PRODUCTS | | | | | | | |
| | | | | | lb/hr | | 3,410,456 |
| | | | | | ACFM | | |
| | | | | | 1,109,079 | | |
| TOTAL COMBUSTION AIR | | | | | lb/hr | | 3,014,392 |
| | | | | | ACFM | | |
| | | | | | 997,176 | | |
| TOTAL ASH (100% UP) | | | | | t/hr | | 10.89 |
| TOTAL LIMESTONE (100% UP) | | | | | t/hr | | 2.93 |
| | | | | | 25,586 | | 24,230 |
| TOTAL FLYASH/LIMESTONE REMOVAL SYSTEM LOADING | | | | | t/hr | | 13.83 |
| | | | | | 14.60 | | 114,152 |
| FLUE GAS TO STACK | | | | | lb/hr | | 3,410,4560 |
| LUNGSTROM AIR HEATER LEAKAGE | | | | | lb/hr | | 0 |
| | | | | | 3,601,358 | | |
| | | | | | 0 | | |
| SOOTBLOWING STEAM | | | | | lb/hr | | 0 |
| NET EVAPORATION | | | | | lb/hr | | 2,439,914 |
| POUNDS STM/KW | | | | | | | |
| NO. OF UNITS | | | | | | | |
| | | | | | 1 | | |
| HEAT RATE CALCULATION (APPROX.) | | | | | | | |
| Gross Heat Rate (Total Plant): | | BTU/KW HR | | | | | |
| Net Heat Rate (Turbine Only): | | BTU/KW HR | | | | | |
| | | 192 | | | | | |
| Plant Gross Heat Rate: | | BTU/KW HR | | | | | |
| | | 9,543 | HHV | 10,068 | 9,513 | 10,036 | |
| | | 8,824 | LHV | 9,310 | 8,796 | 9,280 | |
| Plant Net Heat Rate: | | BTU/KW HR | | | | | |
| | | 10,098 | HHV | 10,654 | 10,066 | 10,621 | |
| | | 9,338 | LHV | 9,852 | 9,308 | 9,820 | |

FIG. 19

20/64

[illegible]

FIG. 20

21/64

[illegible]

FIG. 21

22/64

**O & M Cost Summary For:
2000**

| | Fixed Costs | Variable Costs | Major Maintenance | Fuel |
|---|--------------------|-------------------------|------------------------------|-------------|
| Direct Labor: | \$6,459,453 | | | |
| Operator's Fees & Services: | \$327,939 | | | |
| Bonus Payments: | \$0 | | | |
| Home Office Technical Support: | \$0 | | | |
| Warranty Support: | \$0 | | | |
| Planned Maintenance: | | | \$4,100,334 | |
| Power Marketing & Resource Management: | \$0 | | | |
| Unplanned Maintenance: | | | \$410,033 | |
| Planned Spare Parts: | | | | |
| Boiler: | | \$1,731,661 | | |
| Turbine: | | \$756,330 | | |
| APC Equipment: | | \$149,151 | | |
| Feedwater System: | | \$82,661 | | |
| BOP: | | <u>\$176,591</u> | | |
| | | \$2,866,394 | | |

FIG. 22

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Unplanned Spare Parts: \$2,886,394

Employee Travel & Relocation: \$86,300

Other Employee Expenses, Fees and Services: \$286,422

Office/Administration expenses: \$361,973

Contract Services: Included

Ash Disposal: \$1,126,990

Start-up Fuel: \$84,716

Consumables: \$379,977

Chemicals: \$458,886

Coal: \$46,510,069

Limestone: \$359,458

Purchased Power: \$212,706

Equipment Rental: \$1,418,553

| | | | | | Total Generation Costs |
|------------------------|----------------------------|----------------------------|-------------------------|-------------------------|------------------------------|
| Total Operating Budget | 1 \$9,622,066 13.65% | \$7,216,116 10.35% | \$4,610,068 8.47% | \$4,610,068 8.47% | \$69,780,637 |
| | Fixed Costs \$0.0033 | Variable Costs \$0.0026 | Maintenance \$0.0166 | Maintenance \$0.0166 | \$0.0239 |

230

FIG. 23

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| Operational Information For: 2001 | | | | | | | | | | | | |
|---|-----------------------------|-------------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|-----------|
| Base O&M Labor Costs On | Unit In Operation | Yes=1, No=0 | Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Unit 8 | Total | |
| | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Gross Maximum Capacity | | | 373 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 373 |
| Net Maximum Capacity | | | 352 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 352 |
| Gross Generation (Actual) | | | 2,921,796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,921,796 |
| | | | 2,761,097 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,761,097 |
| Net Capacity Factor | | | 89.53% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Availability Factor | | | 94.25% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| Period Hours | | | | | | | | | | | | |
| Available Hours | Per Year = 1, Per Month = 2 | 1 | 8,760 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Forced Outage Hours | | | 8,256 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Planned Outage Hours | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maintenance Outage Hours | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Average Load Condition (Gross) | MW | % | 354 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MW |
| Average Load Condition (Net) | MW | % | 334 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | MW |
| | | | 95.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | |
| <div><div>Check</div><div>0.9589</div></div> | | | | | | | | | | | | |
| OF Steam For: | | | | | | | | | | | | |
| QF Steam Flow (% of MCR) | Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Unit 8 | | | | |
| Pounds Per Hour (Average) | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | | | | |
| Pounds Per Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Pressure (psig) | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | | | | |
| Degrees of SH (F) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | | | |
| (Input 0 for saturated steam or input actual degrees of SH) | | | | | | | | | | | | |
| 242 | | | | | | | | | | | | |
| Cost Related Information: | | | | | | | | | | | | |
| Escalation Date 17-Mar-01 244 | | | | | | | | | | | | |

Cost Related Information:

17-Mar-01

244

FIG. 25

242

T06080 "E28E360

| | |
|--|-----------------------------------|
| Escalation Rate | 4.00% |
| Last Major Turbine Overhaul | Input for day of the year of work |
| Cost of Purchased Electricity | 01-May-94 |
| Location Adjustment Index | \$0.060 |
| | Base |
| | CPI Composite |
| | Index |
| | Material |
| | Labor |
| | 99.7 |
| | 147.00 |
| | 98.7 |
| | 154.00 |
| Exchange Rate (X/US\$) | |
| Cost per Ton of Fuel (Including trans.) | Coal FOB mine: |
| | Transportation: |
| | 17.00 |
| | \$0.88 |
| | \$1.76 |
| Disposal Cost per Ton of ASH/Scrubber Sludge | \$10.00 |
| Disposal Cost per Ton of ASH/Scrubber Sludge | LIMESTONE 1 |
| | LIME 2 |
| | 2 |
| Lime/Limestone | Lime FOB Mine: |
| Cost per Ton Of: | Transportation: |
| | Total: |
| | \$0.00 |
| | \$0.00 |
| | \$15.00 |
| Start-up Fuel | Oil = 1; NG = 2 |
| | 2 |
| | Oil Cost Per Gallon (Delivered) |
| | \$0.80 |
| | NG Cost Per Therm |
| | Transportation: |
| | \$0.50 |

26/64

Coal Pricing - Tonne Basis

| | | |
|---------|---------|-------|
| 69.55 | 84.76 | 97.06 |
| 121.87% | 114.51% | |
| 6.66 | 7.55 | 8.61 |
| 113.36% | 114.04% | |

Ash - Tonne Basis

| | | |
|---------|---------|-------|
| 21.35 | 22.68 | 26.22 |
| 106.23% | 115.61% | |

FIG. 26

| Operator Related Information: | |
|-------------------------------|-----|
| Operator Fee | \$0 |
| Operator Bonus | \$0 |
| Home Office Tech Support | \$0 |
| Warranty Support | \$0 |
| Number of Shifts | 4 |
| Union/non-union Facility | 0 |
| Overtime | 10% |
| Wage Benefits | 40% |

248

250

| Facility Equipment Information: | | UNIT 1UNIT 2UNIT 3UNIT 4UNIT 5UNIT 6UNIT 7UNIT 8 | | | | | | | |
|---|------------------------------|--|----|----|----|----|----|----|----|
| Type of Boiler Equipment (1 or 2) | 1 | PULVERIZED COAL | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | FLUIDIZED BED | | | | | | | |
| Unit Design / Commercial Operation Date | | | PC | PC | PC | PC | PC | PC | PC |
| | Number of Boilers | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Flyash Control System | | | | | | | | | |
| | 1 ESP | | 2 | 1 | 3 | 1 | 1 | 1 | 1 |
| | 2 BAGHOUSE | | | | | | | | |
| | 3 BAGHOUSE PLUS GORETEX BAGS | | | | | | | | |
| SO2 Control System: | | | | | | | | | |
| | 1 NO SO2 EQUIPMENT | | 3 | 1 | 2 | 1 | 1 | 1 | 1 |
| | 2 DRY INJECTION | | | | | | | | |
| | 3 SCRUBBER | | | | | | | | |
| Mercury Control System | | | | | | | | | |
| | 1 NO HG CONTROL | | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| NOx Control System | | | | | | | | | |
| | 2 ACTIVATED CARBON | | | | | | | | |

FIG. 27

28/64

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| 1 LOW NOX BURNERS | | | | | | | | | |
| 2 SNCR | | | | | | | | | |
| 3 SCR | | | | | | | | | |
| Cooling Tower: (Yes=1; No=0) | | | | | | | | | |
| Cycle: | | | | | | | | | |
| 1 ACTUAL CYCLE VALUES | | | | | | | | | |
| 2 STANDARD 1800 PSIG (NON-REHEAT) | | | | | | | | | |
| 3 STANDARD 2400 PSIG (5% OP) | | | | | | | | | |
| Superheater: | | | | | | | | | |
| (-4,080,000 @ 600 MW) (Input Actual Flow Value if Available) | | | | | | | | | |
| Flow without QF heat loss | | | | | | | | | |
| Equiv. QF Steam Increase | | | | | | | | | |
| Total Steam Flow | | | | | | | | | |
| Outlet Pressure | | | | | | | | | |
| Outlet Temperature | | | | | | | | | |
| Reheater: | | | | | | | | | |
| ~3,770,000 @ 600 MW | | | | | | | | | |
| Flow without QF heat loss | | | | | | | | | |
| Equiv. QF Steam Increase | | | | | | | | | |
| Total Steam Flow | | | | | | | | | |
| Inlet Pressure (psig) | | | | | | | | | |
| Inlet Temperature (F) | | | | | | | | | |
| Outlet Pressure (psig) | | | | | | | | | |
| Outlet Temperature (F) | | | | | | | | | |
| Feedwater Temperature | | | | | | | | | |
| Stack Temperature | | | | | | | | | |
| Ambient Temperature | | | | | | | | | |
| Spares Cost | | | | | | | | | |
| Fuel Loss during Handling: | | | | | | | | | |
| SO2 Removal | | | | | | | | | |

FIG. 28

ACTUAL ANALYSIS
1
STANDARD BITUMINOUS 2
STANDARD SUBBITUMINOUS 3
STANDARD LIGNITE (TEXAS) 4
STANDARD NATURAL GAS 5

Selected Fuels Input: 1

| Ultimate Analysis | | Sub-bituminous |
|-------------------|--|----------------|
| Moisture | | 29.80% |
| Ash | | 5.50% |
| Carbon | | 48.30% |
| Hydrogen | | 3.40% |
| Nitrogen | | 0.70% |
| Chlorine | | 0.01% |
| Sulfur | | 0.85% |
| Oxygen | | 11.80% |
| | | 100.36% |

| Natural Gas | | (Gas analysis is entered on fuels page) | |
|------------------|--|---|-------|
| Oxygen | | O2 | 0.00% |
| Argon | | A | 0.00% |
| Carbon Dioxide | | CO2 | 0.00% |
| Nitrogen | | N2 | 0.00% |
| Hydrogen | | H2 | 0.00% |
| Hydrogen Sulfide | | H2S | 0.00% |
| Methane | | CH4 | 0.00% |
| Ethane | | C2H6 | 0.00% |
| Propane | | C3H8 | 0.00% |
| n-Butane | | C4H10 | 0.00% |
| n-Propane | | C5H12 | 0.00% |
| n-Hexane | | C6H14 | 0.00% |
| Total: | | | 0.00% |

| | | |
|-------------|--------|----------|
| Excess Air: | 20.00% | Btu/lb |
| HHV: | 8,500 | |
| LHV: | 18.28 | GJ/tonne |

Fixed Carbon (differential) 33.71%

Volatile Matter 30.44%

Sulfur 0.85%

Moisture 29.55%

Ash
5.45%

100.00%

Excess Air: 10.00%

HHV: 0 Btu/CF(1)

LHV: 0 Btu/CF(1)

Note 1: (68F, 30"WG)

FIG. 29

| | |
|-------------------------------------|-----------|
| Furnace Volume Design Parameters | |
| Volume - Cu. Ft.: | 20,000 |
| Surface - Sq. Ft. (EPRS - Up Nose): | 200,000 |
| NH/PA: | 1,850,000 |
| Carbon Loss | 0.25% |

FIG. 30

File Name: CoalPer031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Escalation 4.00%
Escalation Factor 1.070

270

| | Number of Equipment Sets Per Unit | | | | | | | | Unit Gross Output |
|--|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| | Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Unit 8 | |
| Development Costs | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 373 |
| Internal Costs | 373 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19-Mar-01 |
| Thrd Party Costs | | | | | | | | | |
| Project Counsel | \$11,833 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$11,832.68 |
| Development Contingency | \$12,326 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$12,325.70 |
| Land Options | \$1,578 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,577.69 |
| Pre NTP EPC Cost | \$0 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Total Development Costs | \$986 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$986.06 |
| | \$1,972 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,972.11 |
| | \$28,694 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$28,694.24 |
| Development Fee | \$9,057 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$9,057.13 |
| Mine Acquisition Costs | \$0 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Site Purchase | \$12,076 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$12,076.17 |
| Development Fee/Mine Acquisitions/Site | \$21,133 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$21,133.30 |
| Plant | | | | | | | | | |
| Boilers | | | | | | | | | |
| Headers | \$4,307 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,307.00 |
| Heating Surface | \$21,936 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$21,936.00 |
| Waterfall | \$12,904 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$12,904.00 |
| Steel | \$16,533 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$16,533.00 |
| Firing Equipment | \$10,275 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$10,275.00 |
| Misc. Equipment | \$20,646 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$20,646.00 |
| | \$86,601 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$86,600.65 |

FIG. 31

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| | | | | | | | | | |
|--|--------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| Turbine Generators | \$38,324 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$38,324.29 |
| BAGHOUSE | \$7,459 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$7,459.07 |
| SCRUBBER | \$37,253 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$37,252.60 |
| ACTIVATED CARBON | \$419.07 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$419.07 |
| SCR | \$37,253 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$37,252.60 |
| Circulating Water System | \$1,275.65 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,275.65 |
| Electrical System & Equipment | \$23,330.45 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$23,330.45 |
| Fuel Storage & Handling | \$17,662.70 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$17,662.70 |
| Infrastructure | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Water Treatment | \$3,132.42 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$3,132.42 |
| Other | \$39,755.15 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$39,755.15 |
| Misc. Insurance | \$515.62 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$515.62 |
| Fixtures | | | | | | | | | |
| Boilers - not plant related | \$446.53 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$446.53 |
| Chimneys | \$3,500.06 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$3,500.06 |
| Cooling Towers | \$20,257.85 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$20,257.85 |
| Coal Bunkers | \$1,002.37 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,002.37 |
| Land & Buildings | | | | | | | | | |
| Buildings | \$34,773.70 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$34,773.70 |
| Other | | | | | | | | | |
| EPC Target | \$49,085.86 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$49,085.86 |
| Total EPC Costs | \$402,046.65 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$402,046.65 |
| Transmission Fees During Construction | \$4,021.87 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$4,021.87 |
| Waste Water Pipeline | \$11,189.05 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$11,189.05 |
| Management Services During Construction | | | | | | | | | |
| General & Administrative | \$15,382.48 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$15,382.48 |
| Professional Services | \$2,760.96 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$2,760.96 |
| Engineering Consultants | \$1,972.11 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,972.11 |
| Utilities | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Owner's Mobilization G&A | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Other Owner's Costs | \$2,218.63 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$2,218.63 |
| Management Services Fee | \$1,725.60 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,725.60 |
| Total Owner's Costs | \$24,059.78 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$24,059.78 |

FIG. 32

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| | | | | | | | | | | | |
|-----------------------------|----------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| O&M Mobilization | Labor | \$6,606.58 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$8,606.58 |
| | Fee | \$1,015.64 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,015.64 |
| | G&A | \$374.70 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$374.70 |
| | Plant Consumables | \$1,356.81 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,356.81 |
| | Equipment | \$5,423.31 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$5,423.31 |
| Infrastructure Costs | Owners G&A | \$9,663.35 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$9,663.35 |
| | | \$24,440.39 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$24,440.39 |
| | Roads | \$8,263.15 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$8,263.15 |
| | Community Infrastructure | \$1,054.09 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,054.09 |
| | Mine Industrial Area | \$5,180.74 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$5,180.74 |
| Owner's Contingency | Construction Camp | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | Water Management | \$1,176.37 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,176.37 |
| | Total Infrastructure Costs | \$15,674.85 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$15,674.85 |
| | Power Plant EPC Costs | \$40,204.67 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$40,204.67 |
| | Transmission Costs | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Financing Fees/Costs | Electrical Interconnection | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | Infrastructure Costs | \$1,567.44 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1,567.44 |
| | Total Owner's Contingency | \$41,772.10 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$41,772.10 |
| | Financial Advisor | \$6,409.37 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$6,409.37 |
| | Upright Fees | \$8,381.48 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$8,381.48 |
| Unit Gross Output | | \$14,790.35 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$14,790.35 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Total Cost | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| \$/kW Installed | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

FIG. 33

File Name: CoalPer031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

| Date Hours Of Operation (@end of operational year) Operational Year | Mar-01 | Mar-02 | Mar-03 | Mar-04 | Mar-05 | Mar-06 | Mar-07 | Mar-08 | Mar-09 | Mar-10 | 10 Year Average |
|--|--------|---------|--------|--------|--------|---------|--------|---------|--------|---------|--------------------|
| Waterwall | \$258 | \$1,290 | \$258 | \$258 | \$258 | \$258 | \$258 | \$1,290 | \$258 | \$258 | \$464 |
| Heating Surface | \$439 | \$2,193 | \$439 | \$439 | \$439 | \$439 | \$439 | \$2,193 | \$439 | \$439 | \$790 |
| Grates | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pulverizers | \$0 | \$1,032 | \$0 | \$0 | \$0 | \$516 | \$0 | \$1,032 | \$0 | \$258 | \$310 |
| Air Pre-Heaters | \$0 | \$1,032 | \$0 | \$0 | \$0 | \$516 | \$0 | \$1,032 | \$0 | \$258 | \$310 |
| Fuel Handling | \$0 | \$88 | \$0 | \$0 | \$0 | \$88 | \$0 | \$177 | \$0 | \$88 | \$62 |
| Headers | \$0 | \$215 | \$0 | \$0 | \$0 | \$0 | \$0 | \$215 | \$0 | \$0 | \$43 |
| Steel | \$0 | \$0 | \$0 | \$0 | \$0 | \$17 | \$0 | \$0 | \$0 | \$0 | \$2 |
| Belts/Crushers | \$0 | \$0 | \$0 | \$0 | \$0 | \$132 | \$0 | \$0 | \$0 | \$0 | \$13 |
| Casing/Refractory/Ductwork | \$0 | \$0 | \$0 | \$0 | \$0 | \$177 | \$0 | \$0 | \$0 | \$0 | \$18 |
| Chemical Cleaning | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$550 | \$0 | \$0 | \$55 |
| | \$697 | \$5,851 | \$697 | \$697 | \$697 | \$2,143 | \$697 | \$6,489 | \$697 | \$1,301 | \$2,066 |

FIG. 34

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| | | | | | | | | | | | | | |
|---------------------------|---------|----------|---------|---------|---------|---------|---------|----------|---------|---------|-------|-------|---------|
| Turbine (insp/overhaul) | \$0 | \$1,916 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,916 | \$0 | \$0 | \$383 |
| Turbine Values | \$0 | \$575 | \$0 | \$0 | \$0 | \$0 | \$287 | \$0 | \$0 | \$575 | \$0 | \$0 | \$144 |
| Generator (inspections) | \$0 | \$766 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$766 | \$0 | \$0 | \$153 |
| Sub-Total | \$0 | \$3,257 | \$0 | \$0 | \$0 | \$0 | \$287 | \$0 | \$0 | \$3,267 | \$0 | \$0 | \$680 |
| Anion Resin | \$344 | \$0 | \$0 | \$376 | \$0 | \$0 | \$407 | \$0 | \$0 | \$0 | \$0 | \$188 | \$132 |
| Cation Resin | \$0 | \$141 | \$0 | \$0 | \$0 | \$0 | \$125 | \$0 | \$0 | \$0 | \$0 | \$0 | \$27 |
| MB Resin | \$141 | \$0 | \$0 | \$110 | \$0 | \$0 | \$125 | \$0 | \$0 | \$0 | \$0 | \$141 | \$52 |
| Carbon Filters | \$78 | \$0 | \$78 | \$0 | \$0 | \$78 | \$0 | \$78 | \$0 | \$0 | \$78 | \$0 | \$39 |
| Gravity Filters | \$0 | \$0 | \$13 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$38 | \$0 | \$5 |
| Sub-Total | \$564 | \$141 | \$91 | \$485 | \$78 | \$125 | \$611 | \$0 | \$116 | \$329 | | | \$264 |
| BAGHOUSE | \$0 | \$0 | \$164 | \$0 | \$0 | \$164 | \$0 | \$0 | \$184 | \$0 | \$0 | \$0 | \$49 |
| SCRUBBER | \$0 | \$0 | \$310 | \$0 | \$0 | \$310 | \$0 | \$0 | \$310 | \$0 | \$0 | \$0 | \$93 |
| Sub-Total | \$0 | \$0 | \$474 | \$0 | \$0 | \$474 | \$0 | \$0 | \$474 | \$0 | | | \$142 |
| Electrical | \$0 | \$233 | \$0 | \$233 | \$0 | \$233 | \$0 | \$233 | \$0 | \$233 | \$0 | \$233 | \$117 |
| I&C | \$0 | \$117 | \$0 | \$117 | \$0 | \$117 | \$0 | \$117 | \$0 | \$117 | \$0 | \$117 | \$58 |
| Power Block | \$0 | \$1,916 | \$0 | \$0 | \$0 | \$958 | \$0 | \$1,916 | \$0 | \$0 | \$0 | \$0 | \$479 |
| Ash Handling | \$413 | \$0 | \$206 | \$0 | \$0 | \$206 | \$0 | \$413 | \$0 | \$413 | \$0 | \$0 | \$165 |
| General | \$122 | \$0 | \$139 | \$0 | \$0 | \$146 | \$0 | \$156 | \$0 | \$122 | \$0 | \$0 | \$68 |
| Facilities/Infrastructure | \$0 | \$122 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$170 | \$0 | \$122 | \$0 | \$71 |
| Sub-Total | \$535 | \$2,387 | \$346 | \$489 | \$1,310 | \$606 | \$669 | \$2,436 | \$535 | \$472 | | | \$968 |
| Total | \$1,795 | \$11,636 | \$1,607 | \$2,364 | \$2,373 | \$3,248 | \$1,877 | \$12,182 | \$1,821 | \$2,101 | | | \$4,100 |

FIG. 35

300

36/64

General Project Information:

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Operator's Fees & Service:

| | |
|----------------------------------|------------------------|
| Operator Fee | \$0 |
| Legal Services | \$139,805 |
| Construction Services | \$146,709 |
| Testing Services | <u>\$41,424</u> |
| total Fees & Services | \$327,939 |

Travel: **\$86,300**

Misc. Employee Expenses **\$286,422**

310

FIG. 36

37/64

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Sample Project

Consumerables:

| | | |
|-------------------------------------|--|-----------|
| Lubricating Oils: | | \$379,977 |
| Hydraulic Oil: | | |
| Solvents/Boiler Wash: | | |
| Cleaning Materials: | | |
| Welding Supplies: | | |
| Nuts/Bolts/Small Mechanical Parts: | | |
| Fuses/Light Bulb/Small Elect.Parts: | | |
| Fittings/Small I&E Parts: | | |
| Gas & Oil: | | |
| Total Oils and Lubricants | | \$379,977 |

Chemicals:

| | | |
|------------------|--------|-----------|
| Boiler Water: | 62.27% | \$285,603 |
| Cooling Water: | 36.38% | \$166,889 |
| Demin.Regen: | 1.35% | \$6,194 |
| Fuel Oil: | | |
| Sanitary: | | |
| NOx: | | |
| Aqueous Ammonia: | | |
| Total Chemicals: | | \$458,686 |

Gases:

| | |
|----------------------------|-----|
| Nitrogen: | \$0 |
| Hydrogen: | \$0 |
| Oxygen/Acetylene: | \$0 |
| NOx, CO, SO2, O2 Span Gas: | \$0 |
| Total Gases: | \$0 |

FIG. 37

320

090330Z FEB 60

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Office Supplies & Services:

| | |
|-------------------------------|------------|
| Postage, Overnight Mail, etc: | \$17,104 |
| Freight: | \$0 |
| Telephone: | \$41,038 |
| Utilities: | \$9,263 |
| Dues, Subscriptions: | \$70,914 |
| Advertising: | \$0 |
| Camera/Film/Photo Supplies: | \$0 |
| Copier/Paper/Services: | \$0 |
| Offices Supplies: | \$40,194 |
| General Supplies: | \$0 |
| Audio Visual Equipment | \$0 |
| Portable Radios/Services: | \$0 |
| Drinking Water: | \$0 |
| Safety Supplies: | \$0 |
| Safety/Environmental Insp: | \$0 |
| Instrument Service/Repair: | \$0 |
| Vehicles/Service/Repair: | \$0 |
| Insurance Autos/Trucks: | \$165,284 |
| Lift Trucks/Service: | \$0 |
| Small Tools: | \$0 |
| Software for Computers: | \$0 |
| Computer Hardware: | \$271 |
| Building Maintenance: | \$0 |
| Janitorial Supplies: | \$4,594 |
| Misc. Expenses: | \$0 |
| Uniforms: | \$13,310 |
| | <u>\$0</u> |

Total Supplies and Services: \$361,973

Office Furniture/Rent:

| | |
|----------------------------|------------|
| Office Rent: | \$0 |
| Desk/Chairs/etc: | \$0 |
| Lab/Shop/Cntrl. Rm. Equip: | \$0 |
| Computer Lease: | \$0 |
| | <u>\$0</u> |

Total Office Furniture: \$0

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File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Rentals/Lease:

| | |
|--------------------|-------------|
| Tools: | \$15,304 |
| Equipment: | \$261,694 |
| Office: | \$57,431 |
| Office Equipment: | \$1,066,871 |
| Railcar: | \$17,253 |
| Lease Auto/Trucks: | \$1,418,553 |
| Total Rentals: | |

Planned Spare Parts:

| | |
|--------------------|-------------|
| Boiler: | \$1,731,661 |
| Turbine: | \$766,330 |
| APC Equipment: | \$149,151 |
| Feedwater System: | \$62,661 |
| BOP: | \$176,591 |
| Total Spare Parts: | \$2,886,394 |

340

FIG. 39

40/64

File Name: CoalPerf031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

Proximate Analysis:

| | |
|-----------------|---------------------|
| FC | 33.71% |
| VM | 30.44% |
| S | 0.85% |
| M | 29.55% |
| <u>A</u> | <u>5.45%</u> |
| Total | 100.00% |

HHV (Btu/#) 8,500

Information used in conjunction with the coal classification figure:

| | |
|-------------|----------------|
| BTU: | 8504.98 |
| Dry: | 33.70% |

Project Coal Classification:

| | |
|---------------------|-------------------|
| Coal Type: | 3 |
| (Calculated) | Sub- |
| | Bituminous |
| | OK |

Hardgrove Grind. Index:

FIG. 40

09032823 000901
T06030"E28E860

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Ash Mineral Analysis:

| | |
|---|--------|
| Silica - SiO ₂ | 31.00 |
| Alumina - Al ₂ O ₃ | 14.00 |
| Titania - TiO ₂ | 1.10 |
| Ferric Oxide - Fe ₂ O ₃ | 6.50 |
| Lime - CaO | 24.60 |
| Magnesia - MgO | 6.00 |
| Potassium Oxide - K ₂ O | 0.25 |
| Sodium Oxide - Na ₂ O | 1.30 |
| Sulfur Trioxide - SO ₃ | 12.20 |
| Phosphorous Pentoxide - P ₂ O ₅ | 0.70 |
| Undetermined | 2.35 |
| Total | 100.00 |

| | |
|--|------|
| Ash Fusion Temperature (Deg. F) | |
| Initial Deformation-Reducing (Input Data) | 2189 |
| Initial Deformation-Oxidizing (Input Data) | 2239 |

PARR Formula Relationships:

BASE/ACID RATIO:
(A range of .4-.7 0.7641
coals and results in low ash-fusibility temps)

IRON/CALCIUM RATIO:
(3-0.3 INDICATIVE 0.26
lowers the fusibility temp. of the ash)

IRON/DOLOMITE RATIO:
(Blt. type ash u: 0.21)

SILICA/ALUMINA RATIO:
(above 2.8 & b 2.21)

FIG. 41

106080"E28E860

T06080" E28EE860

Project Natural Gas Analysis:

| Natural Gas Analysis: | | Molecular Weight | | Lb/100 Moles | | Lb Constituent Per Lb Fuel | | Lb Air Required for Combustion Per Lb Fuel | | Lb Dry Air Per Lb Fuel | | BTU's Per Per Constit | | BTU's Per Lb Fuel | | #Cu Ft (2) | | Density #Cu Ft (2) | |
|-----------------------|-------|------------------|-------|--------------|---------|----------------------------|--|--|--|------------------------|--|-----------------------|--|-------------------|--|------------|--|--------------------|--|
| | | Percent by vol | | | | Per Lb Fuel | | Per Lb Fuel | | Per Lb Fuel | | Per Constit | | Lb Fuel | | #Cu Ft (2) | | #Cu Ft (2) | |
| Oxygen | O2 | 0.00% | 32.00 | 0.00 | #DIV/01 | | | | | #DIV/01 | | 0 | | #DIV/01 | | 0.0846 | | 0.0846 | |
| Argon | A | 0.00% | 0.00 | 0.00 | #DIV/01 | | | 0 | | #DIV/01 | | 0 | | #DIV/01 | | 0.117 | | 0.117 | |
| Carbon Dioxide | CO2 | 0.00% | 44.00 | 0.00 | #DIV/01 | | | 0 | | #DIV/01 | | 0 | | #DIV/01 | | 0.0744 | | 0.0744 | |
| Nitrogen | N2 | 0.00% | 28.08 | 0.00 | #DIV/01 | | | 0 | | #DIV/01 | | 0 | | #DIV/01 | | 0.0053 | | 0.0053 | |
| Hydrogen | H2 | 0.00% | 2.02 | 0.00 | #DIV/01 | | | 34.34 | | #DIV/01 | | 61,095 | | #DIV/01 | | 0.0911 | | 0.0911 | |
| Hydrogen Sulfide | H2S | 0.00% | 34.08 | 0.00 | #DIV/01 | | | 6.1 | | #DIV/01 | | 7,097 | | #DIV/01 | | 0.0425 | | 0.0425 | |
| Methane | CH4 | 0.00% | 16.03 | 0.00 | #DIV/01 | | | 17.27 | | #DIV/01 | | 23,875 | | #DIV/01 | | 0.0803 | | 0.0803 | |
| Ethane | C2H6 | 0.00% | 30.05 | 0.00 | #DIV/01 | | | 16.12 | | #DIV/01 | | 22,323 | | #DIV/01 | | 0.1196 | | 0.1196 | |
| Propane | C3H8 | 0.00% | 44.06 | 0.00 | #DIV/01 | | | 15.7 | | #DIV/01 | | 21,669 | | #DIV/01 | | 0.1582 | | 0.1582 | |
| Butane | C4H10 | 0.00% | 58.10 | 0.00 | #DIV/01 | | | 15.49 | | #DIV/01 | | 21,321 | | #DIV/01 | | 0.1904 | | 0.1904 | |
| Pentane | C5H12 | 0.00% | 72.10 | 0.00 | #DIV/01 | | | 15.35 | | #DIV/01 | | 21,095 | | #DIV/01 | | 0.2274 | | 0.2274 | |
| Hexane | C6H14 | 0.00% | 86.12 | 0.00 | #DIV/01 | | | | | #DIV/01 | | 20,966 | | #DIV/01 | | | | | |
| Total: | | 0.00% | | 0.00 | #DIV/01 | | | | | #DIV/01 | | | | #DIV/01 | | | | | |

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Molecular Weight of Fuel: 0

Flue Gas Weight:

| | |
|---------------------------|------------|
| #gas/Cu. Ft. (gas) | 0 |
| GHI to GT (MMBTU) | 372.8 |
| GHI to Duct Burners | 32.26 |
| Total GHI: | 405.06 |
| HHV of Fuel (BTU/Cu. Ft.) | 0 |
| Cu. Ft. of Gas Fired / Hr | #DIV/01 |
| Lbs. of Gas Fired / Hr | #DIV/01 |
| Lbs. of Air / Hr | #DIV/01 |
| Total Gas Flow @ 0% EA | #DIV/01 |
| | 59708 |
| | 7144 |
| | 426.553952 |

FIG. 42

Natural Gas Heating Value Conversion Analysis:
17-Mar-01

| Natural Gas Analysis: | | Percent by vol | Btu/CF (1) | HHV Comp. Btu (68F, 14.70 psia) | HHV Comp. Btu (60F, 14.70 psia) |
|-----------------------|-------|----------------|------------|---------------------------------------|---------------------------------------|
| Oxygen | O2 | 0.00% | 0 | 0.00 | 0.00 |
| Argon | A | 0.00% | 0 | 0.00 | 0.00 |
| Carbon Dioxide | CO2 | 0.00% | 0 | 0.00 | 0.00 |
| Nitrogen | N2 | 0.00% | 0 | 0.00 | 0.00 |
| Hydrogen | H2 | 0.00% | 319.4 | 0.00 | 0.00 |
| Hydrogen Sulfide | H2S | 0.00% | 547 | 0.00 | 0.00 |
| Methane | CH4 | 0.00% | 994.7 | 0.00 | 0.00 |
| Ethane | C2H6 | 0.00% | 1742.6 | 0.00 | 0.00 |
| Propane | C3H8 | 0.00% | 2480.1 | 0.00 | 0.00 |
| Butane | C4H10 | 0.00% | 3215.6 | 0.00 | 0.00 |
| Pentane | C5H12 | 0.00% | 3950.2 | 0.00 | 0.00 |
| Hexane | C6H14 | 0.00% | 4661.236 | 0.00 | 0 |
| Total | | 0.00% | HHV = | 0.00 | 0.00 |

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| Natural Gas Analysis: | | Percent by vol | Btu/CF (1) | LHV Comp. Btu (68F, 30"WG) | LHV Comp. Btu (60F, 30"WG) |
|-----------------------|-------|----------------|------------|----------------------------------|----------------------------------|
| Oxygen | O2 | 0.00% | 0 | 0.00 | 0.00 |
| Argon | A | 0.00% | 0 | 0.00 | 0.00 |
| Carbon Dioxide | CO2 | 0.00% | 0 | 0.00 | 0.00 |
| Nitrogen | N2 | 0.00% | 0 | 0.00 | 0.00 |
| Hydrogen | H2 | 0.00% | 270 | 0.00 | 0.00 |
| Hydrogen Sulfide | H2S | 0.00% | 595 | 0.00 | 0.00 |
| Methane | CH4 | 0.00% | 896 | 0.00 | 0.00 |
| Ethane | C2H6 | 0.00% | 194.5 | 0.00 | 0.00 |
| Propane | C3H8 | 0.00% | 2282.6 | 0.00 | 0.00 |
| Butane | C4H10 | 0.00% | 2968.7 | 0.00 | 0.00 |
| Pentane | C5H12 | 0.00% | 3654 | 0.00 | 0.00 |
| Hexane | C6H14 | 0.00% | 4311.72 | 0.00 | 0 |
| Total | | 0.00% | LHV = | 0.00 | 0.00 |

HHV/LHV Ratio #DIV/01

Notes:

(1) Source Mark's Standard Handbook for Mechanical Engineers
Ninth Edition Page 4-29

FIG. 43

| Molecular Weights | | |
|-------------------|--------|--------|
| S | 32.064 | 1 |
| O | 15.999 | 2 |
| | 84.063 | |
| | | 50.05% |

SO₂ Offset Cost Assumption \$150.00 \$/Ton
 @ 1.2 lbs
 SO₂/million BTU

Southern Fuels

| Mines | Average Content | Average BTU/lb | Average Sulfur (S%) | Average Ash Content (S%) | In Compliance (Y/N)* | 8 % allowed for Compliance | SO2 | | | Required Offsets | |
|------------|--------------------|-------------------|------------------------|--------------------------------|-------------------------|-------------------------------|-------------------|-------------------------|-------------------|-----------------------|------------|
| | | | | | | | lbs SO2/MM Btu | Reduction Efficiency | lbs SO2/MM Btu | SO2/Ton Coal Fired | Tons |
| Balley | 12,950 | 2.14% | 7.50% | | N | 0.778% | 3.3 | 10.00% | 2.97 | 0.038462 | \$5.769 |
| Colonial | 12,800 | 0.93% | 8.88% | | N | 0.769% | 1.45 | 0.00% | 1.45 | 0.018560 | \$2.784 |
| Whitetail | 12,800 | 1.60% | 8.25% | | N | 0.769% | 2.5 | 0.00% | 2.50 | 0.032000 | \$4.800 |
| Juliana | 12,900 | 1.29% | 9.75% | | N | 0.775% | 2 | 0.00% | 2.00 | 0.025800 | \$3.870 -- |
| Sawmill | 12,900 | 1.29% | 9.75% | | N | 0.775% | 2 | 0.00% | 2.00 | 0.025800 | \$3.870 |
| Sentential | 12,900 | 1.29% | 9.75% | | N | 0.775% | 2 | 0.00% | 2.00 | 0.025800 | \$3.870 |
| Winifrede | 12,800 | 0.93% | 9.25% | | N | 0.769% | 1.45 | 0.00% | 1.45 | 0.018560 | \$2.784 |

| | | | | | | | | | |
|-------|-------|-------|---|--------|------|-------|------|----------|---------|
| 8,500 | 0.92% | 5.50% | N | 0.511% | 2.17 | 0.00% | 2.17 | 0.018545 | \$2.767 |
|-------|-------|-------|---|--------|------|-------|------|----------|---------|

41907.04

FIG. 44

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| Provided Information | | | | | | | | | |
|-------------------------|-------|------------|------------|------------------------|---------------|------------------------|-------------------------|--|----------------------------|
| Project Info. Check | | | | | | | | | |
| | HHV | Tons Fired | BBtu | SO ₂ (tons) | S (tons) | %S | | | |
| Unit 1 | 8,551 | 756,000 | 12,929 | 11,500 | 5,756 | 0.76% | | | |
| Unit 2 | 8,551 | 756,000 | 12,929 | 13,510 | 6,762 | 0.89% | | | |
| Unit 3 | 8,551 | 752,000 | 12,861 | 12,220 | 6,116 | 0.81% | | | |
| | | 2,264,000 | 38,719 | 37,230 | 18,534 | | | | |
| Project Info. Check | | | | | | | | | |
| | HHV | Tons Fired | BBtu | SO ₂ (tons) | S (tons) | %S | | | |
| Unit 1 | 8,551 | 2,272,000 | 38,856 | 11,500 | 5,756 | 0.25% | | | |
| Unit 2 | 8,551 | 2,338,000 | 39,984 | 13,510 | 6,762 | 0.29% | | | |
| | | 4,610,000 | 78,840 | 25,010 | 12,518 | | | | |
| Calculated Information: | | | | | | | | | |
| Sub- Bituminous | | | | | | | | | |
| Project: | HHV | %S | Tons Fired | MMBtu | Sulfur (tons) | SO ₂ (tons) | #SO ₂ /MMBtu | SO ₂ (1.2#/MMBtu) Allowable Tons | tons of Offset Required |
| Unit 1 | 8,500 | 0.85% | 1,617,002 | 27,489,039 | 13,745 | 27,481 | 2.00 | 16,493 | 10,968 |
| Unit 2 | 8,500 | 0.85% | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! |
| Unit 3 | 8,500 | 0.85% | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! |

FIG. 45

O & M Labor, Purchased Power And Fuel Calculations

GENERAL PROJECT INFORMATION:

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

ANNUAL INFLATION RATE (to present day) 4.0%
BASE DATE 22-Aug-93
ESCALATION DATE 17-Mar-01
Part Year Esc. Factor 1.00

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BASE INDEX

Being Updated Zip Code to be used to identify location

| | MODEL | PROJECT | PROJECT ADJUSTMENT |
|--------------------|-------|---------|--------------------|
| COMPOST ADJUSTMENT | 99.7 | 0 | #DIV/0! |
| MATERIAL | 99.7 | 147 | 147.44% |
| LABOR | | 154 | 156.03% |

Number of Units 1
Total Installed MW 373
Average Unit Size 373
Multiple Unit Labor Multiplier 1.00

CAPACITY (MW):

SYSTEM: POWER BLOCK

NUMBER OF SHIFTS

Exchange Rate 1

4 Operations and Maintenance
1 Administration

LABOR SUMMARY (ADJUSTED FOR LOCATION)

FIG. 46

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| ADMINISTRATIVE: | NUMBER PER SHIFT | NUMBER OF SHIFT(S) | NUMBER OF EMPLOYEES PER POSITION | HOURLY WAGE | OVERTIME (YES=1/NO=0) | ANNUAL WAGE Per Employee | ANNUAL WAGE with O.T. per Employee | FRINGES 40% | ANNUAL Wage with Fringes per Employee | ANNUAL LABOR COST |
|------------------------|---------------------|-----------------------|--|----------------|--------------------------|--------------------------------|---|----------------|--|----------------------|
| | | | | | | | | | | |
| PLANT MANAGER | 1 | 1 | 1 | N/A | 0 | \$100,944 | \$100,944 | 40% | \$141,321 | 141,321 |
| OPERATIONS MANAGER | 1 | 1 | 1 | N/A | 0 | \$87,485 | \$87,485 | 40% | \$122,478 | 122,478 |
| MAINTENANCE MANAGER | 1 | 1 | 1 | N/A | 0 | \$80,755 | \$80,755 | 40% | \$113,057 | 113,057 |
| PLANT/RESULTS MANAGER | 1 | 1 | 1 | N/A | 0 | \$74,025 | \$74,025 | 40% | \$103,638 | 103,638 |
| OFFICE MANAGER | 1 | 1 | 1 | \$20.19 | 1 | \$41,983 | \$46,192 | 40% | \$64,669 | 64,669 |
| ACCOUNTANT | 2 | 1 | 2 | \$18.34 | 1 | \$39,193 | \$43,112 | 40% | \$60,357 | 120,715 |
| ACCOUNT CLERK | 2 | 1 | 2 | \$14.81 | 1 | \$30,795 | \$33,874 | 40% | \$47,424 | 94,847 |
| SECRETARY | 3 | 1 | 3 | \$13.46 | 1 | \$27,985 | \$30,795 | 40% | \$43,112 | 128,337 |
| PLANT/RESULTS ENGINEER | 1 | 2 | 2 | N/A | 0 | \$53,837 | \$53,837 | 40% | \$75,371 | 150,743 |
| STOCK CLERK | 2 | 4 | 9 | \$14.81 | 1 | \$30,795 | \$33,874 | 40% | \$47,424 | 379,389 |
| SUB-TOTAL | | | | | | | | | | 1,420,192 |

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SUB-TOTAL

Total Admin. Labor \$1,420,192 1,420,192

| OPERATIONS: | NUMBER PER SHIFT | NUMBER OF SHIFT(S) | NUMBER OF EMPLOYEES PER POSITION | HOURLY WAGE | OVERTIME (YES=1/NO=0) | ANNUAL WAGE Per Employee | ANNUAL WAGE with O.T. per Employee | FRINGES 40% | ANNUAL Wage with Fringes per Employee | ANNUAL LABOR COST |
|-----------------------|---------------------|-----------------------|--|----------------|--------------------------|--------------------------------|---|----------------|--|----------------------|
| | | | | | | | | | | |
| SHIFT SUPERVISOR | 1 | 4 | 4 | N/A | 1 | \$74,025 | \$81,428 | 40% | \$113,999 | 455,997 |
| CONTROL ROOM OPERATOR | 1 | 4 | 4 | N/A | 1 | \$67,298 | \$74,025 | 40% | \$103,638 | 414,542 |
| CHEMIST | 1 | 4 | 4 | N/A | 1 | \$60,566 | \$66,823 | 40% | \$93,272 | 373,088 |
| APC EQUIP. OPERATOR | 2 | 4 | 8 | N/A | 1 | \$67,298 | \$74,025 | 40% | \$103,638 | 828,085 |
| ROVER | 1 | 4 | 4 | \$21.50 | 1 | \$44,792 | \$49,271 | 40% | \$68,980 | 275,919 |
| SWEEPER/OPERATOR | 1 | 4 | 4 | \$17.50 | 1 | \$36,394 | \$40,033 | 40% | \$56,046 | 224,185 |
| FRONT-END LOADER | 1 | 4 | 4 | \$17.50 | 1 | \$36,394 | \$40,033 | 40% | \$56,046 | 224,185 |
| SUB-TOTAL | | | | | | | | | | 2,241,185 |
| MAINTENANCE: | | | | | | | | | | |
| MECHANICS | 1 | 4 | 4 | \$32.30 | 1 | \$67,188 | \$73,907 | 40% | \$103,407 | 413,879 |
| MECHANICS HELPERS | 1 | 4 | 4 | \$24.23 | 1 | \$50,391 | \$55,430 | 40% | \$77,602 | 310,409 |
| TRUCK DRIVERS | 1 | 4 | 4 | \$18.84 | 1 | \$39,193 | \$43,112 | 40% | \$60,357 | 241,429 |
| ASH/APC SLUDGE MOVER | 2 | 4 | 8 | \$18.84 | 1 | \$39,193 | \$43,112 | 40% | \$60,357 | 482,859 |
| APC MECHANICS | 2 | 4 | 8 | \$32.30 | 1 | \$67,188 | \$73,907 | 40% | \$103,470 | 827,756 |
| SUB-TOTAL | | | | | | | | | | 2,241,185 |
| ELECTRICIANS | | | | | | | | | | |
| ELECTRICIANS HELPERS | 1 | 4 | 4 | \$32.30 | 1 | \$67,188 | \$73,907 | 40% | \$103,470 | 413,879 |
| INSTRUMENT TECH'S | 1 | 4 | 4 | \$24.23 | 1 | \$50,391 | \$55,430 | 40% | \$77,602 | 310,409 |
| APC I & C | 2 | 4 | 8 | \$32.30 | 1 | \$67,188 | \$73,907 | 40% | \$103,470 | 413,879 |
| SUB-TOTAL | | | | | | | | | | 827,756 |

SUB-TOTAL , O & M PLANT LABOR: \$7,039,261 7,039,261

SUB-TOTAL 80

Adjusted for local labor requirements yes=1, no=0

| | |
|----------------------------|----------|
| TOTAL DIRECT LABOR: | 0 |
| TOTAL PLANT STAFF: | 102 |
| AVERAGE COST PER EMPLOYEE: | \$68,936 |

| | |
|-------------|-------------|
| Uncorrected | \$8,459,453 |
| Corrected | \$8,459,453 |
| Sub-TOTAL | \$8,459,453 |

FIG. 47

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III. REPLACEMENT RESERVE

V. MISC. EXPENSES

| Not Including Building Data Base | | | | |
|--------------------------------------|---------------|-------|-------|----------|
| | GPY | CCF | COST | |
| WATER & SEWER | WATER : #REF1 | #REF1 | #REF1 | |
| | SEWER : #REF1 | #REF1 | #REF1 | |
| TOTAL WATER & SEWER | | | | |
| | | | #REF1 | (1993\$) |
| | | | #REF1 | (1996\$) |
| INSURANCE | | | | |
| POLICIES | | | | |
| 1. ALL RISK POLICY (\$90 MILLION) | | | | |
| BUSINESS INTERRUPTION (\$15 MILLION) | | | | |
| 3. THIRD PARTY LIABILITY | | | | |
| 4. POLLUTION LIABILITY (\$1 MILLION) | | | | |
| TOTAL INSURANCE | | | | |
| APPROXIMATION | | | | |
| \$205,035 | | | | |
| \$80,406 | | | | |
| \$250,000 | | | | |
| \$50,000 | | | | |
| TOTAL INSURANCE | | | | |
| APPROXIMATION | | | | |
| \$0 | | | | |
| TOTAL INSURANCE | | | | |
| APPROXIMATION | | | | |
| \$0 | | | | |

| | | | | | | | | | |
|-------------------------|---------------------------|-----------|--------|--------|--------|--------|--------|--------|--------|
| PURCHASED POWER | HOUSE LOAD | UNIT 1 | UNIT 2 | UNIT 3 | UNIT 4 | UNIT 5 | UNIT 6 | UNIT 7 | UNIT 8 |
| | HOUSE LOAD-KW | 5.50% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| HOURS PER YEAR OFF LINE | % OF HOUSE LOAD PURCHASED | 20,489 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | POWER COST | 916.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELECTRIC COST | DEMAND CHARGE | 10% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| | | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL ELECTRICITY COST | | \$112,706 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | \$100,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL ELECTRICITY COST | | \$212,706 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

FIG. 48

| | | | | | | | | |
|---|----------|--------|--------|--------|--------|--------|--------|--------|
| START-UP FUEL | UNIT 1 | UNIT 2 | UNIT 3 | UNIT 4 | UNIT 5 | UNIT 6 | UNIT 7 | UNIT 8 |
| APPROXIMATE DAYS OFF LINE | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NUMBER OF STARTS PER YEAR (AVG. 3 DAY Outage) | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GROSS HEAT INPUT OF UNIT (MILLION BTU'S PER HOUR) | 3555 | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! |
| GHI OF START-UP BURNERS-15% of GHI (MILLION BTU'S PER HOUR) | 533.25 | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! |
| AVERAGE LENGTH OF START-UP (HOURS) | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| HEAT INPUT FROM STARTS | 14,931 | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! |
| TOTAL MILLION BTU'S REQUIRED FOR START-UP | 14,931 | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! |
| NATURAL GAS REQUIRED @ | \$29,862 | | | | | | | |
| OIL REQUIRED @ | \$84,715 | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! | #NUM! |
| | Gallons | | | | | | | |

REAL ESTATE TAXES
NOT INCLUDED IN ESTIMATE

| | | |
|----------------------|-------------|-------------|
| <u>WHEELING COST</u> | Facility C | Facility D |
| | \$1,899,240 | \$3,311,600 |
| Calculated Value: | 1.75198561 | 2.603019553 |

FIG. 49

This tab is being used to adjust variations in heat rate at partial loads in the performance section of the model

| Exhaust Pressure | % | Change | TC2F Length | 26 | | | | | Flow Rates | Boiler Feedwater Temperature-F: | Number of Feedwater Heaters: |
|------------------|--------|--------|-------------|----------|--------|------|------|------|------------|---------------------------------|------------------------------|
| | | | | EXH Pres | VWO-OP | VWO | 100% | 75% | | | |
| 0.5 | -3.12% | 7746 | 7993 | 1.0 | 7993 | 8003 | 8000 | 8016 | 8227 | 9067 | |
| 1 | -1.22% | 7897 | 7995 | 1.5 | 7995 | 8017 | 8009 | 8073 | 8395 | 9414 | |
| 1.5 | 0.00% | 7995 | 7995 | 2.0 | 8032 | 8061 | 8059 | 8177 | 8584 | 9715 | |
| 2 | 0.93% | 8069 | 8032 | 2.5 | 8095 | 8132 | 8136 | 8302 | 8757 | 9986 | |
| 2.5 | 1.68% | 8129 | 8095 | 3.0 | 8181 | 8225 | 8230 | 8427 | 8917 | 10194 | |
| 3 | 2.33% | 8181 | 8181 | 3.5 | 8275 | 8328 | 8330 | 8543 | 9062 | 10395 | |
| 3.5 | 2.89% | 8226 | 8275 | 4.0 | 8376 | 8433 | | 8653 | 9202 | 10575 | |
| 4 | 3.36% | 8264 | 8376 | 4.5 | 8472 | 8532 | | 8757 | 9334 | | |
| 4.5 | 3.80% | 8299 | 8472 | 5.0 | 8566 | 8629 | | 8857 | 9460 | | |
| 5 | 4.20% | 8331 | 8566 | | | | | | | | |

Superheater 1,025,000
Reheater 900,000
Gen-KW 156,200

Boiler Feedwater Temperature-F: 460
Number of Feedwater Heaters: 6

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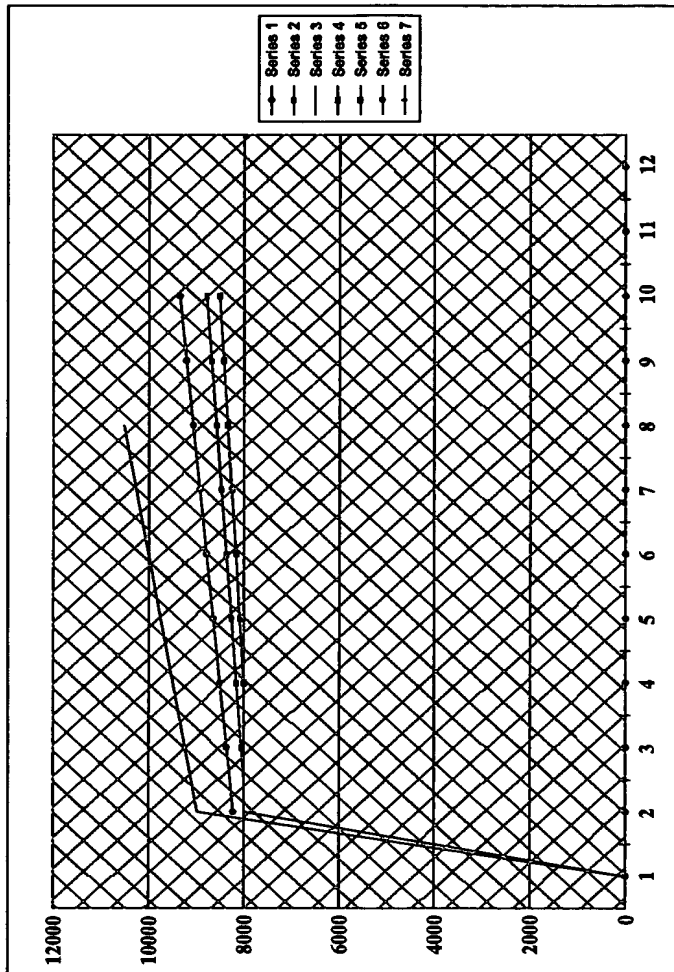


FIG. 50

TC2F

Last Stage Bucket Length 30

| EXH Pres | VWO-OP | VWO | 100% | 75% | 50% | 25% |
|----------|--------|------|------|------|-------|-------|
| 1.0 | 7832 | 7853 | 7844 | 7907 | 8225 | 9293 |
| 1.5 | 7884 | 7915 | 7918 | 8068 | 8531 | 9790 |
| 2.0 | 7995 | 8040 | 8050 | 8276 | 8797 | 10208 |
| 2.5 | 8149 | 8208 | 8212 | 8464 | 9045 | 10558 |
| 3.0 | 8312 | 8376 | | 8636 | 9272 | |
| 3.5 | 8466 | 8536 | | 8803 | 9479 | |
| 4.0 | 8612 | 8688 | | 8962 | 9670 | |
| 4.5 | 8757 | 8841 | | 9112 | 9844 | |
| 5.0 | 8901 | 8991 | | 9254 | 10005 | |

Flow Rates

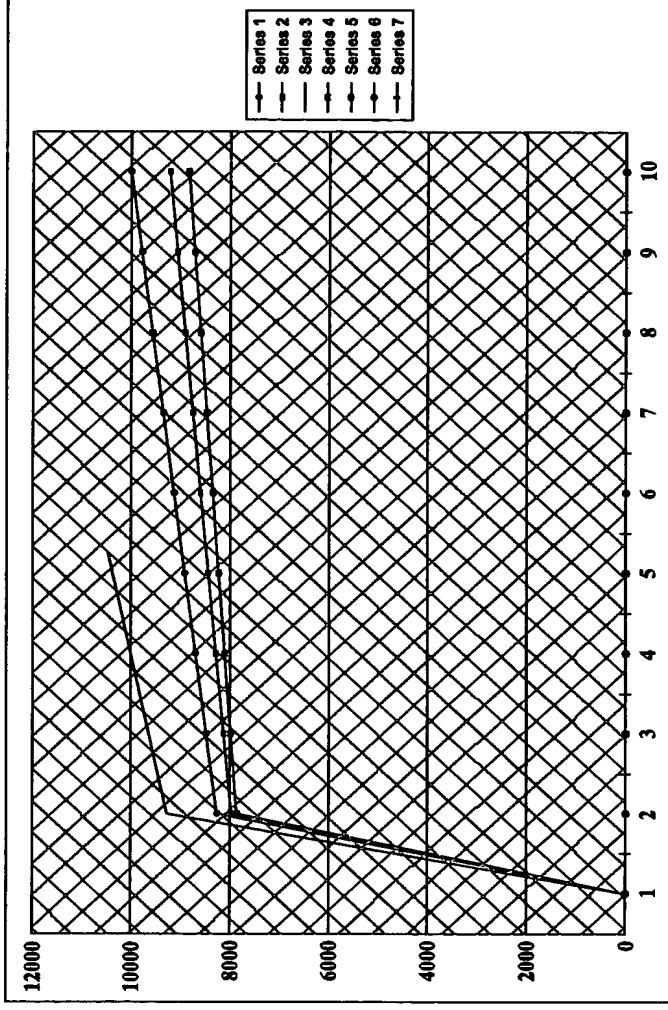
Superheater Reheater Gen-KW

1,025,000 900,000 156,200

Boiler Feedwater Temperature-F: 460

Number of Feedwater Heaters: 6

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Heat Rates

| | Load | 20% | 25% | 30% | 35% | 40% | 45% | 50% | 55% | 0.61% |
|-------------------------|------|-----------|------------|------------|------------|-----------|------------|------------|------------|-------|
| Test Heat Rates | | 13,463 | 12,476 | 11,827 | 11,371 | 11,036 | 10,782 | 10,584 | 10,427 | |
| calc. uncorrected | | 9,742 | 9,773 | 9,805 | 9,836 | 9,868 | 9,900 | 9,932 | 9,964 | |
| Steam correction factor | | 1,382 | 1,277 | 1,206 | 1,158 | 1,118 | 1,089 | 1,066 | 1,046 | |
| | | 1.1291239 | 1.11890487 | 1.10868585 | 1.09846682 | 1.0882478 | 1.07802877 | 1.06780975 | 1.05759072 | |

-8.80% -5.24% -2.77% -1.03% 0.20% 1.05%

| Check | 20% | 25% | 30% | 35% | 40% | 45% | 50% | 55% |
|-----------------------|-----|--------|-----|-----|-----|-----|-------|-----|
| 200MW Tandem Compound | | 9,650 | | | | | 8,523 | |
| 350MW Tandem Compound | | 10,143 | | | | | 8,712 | |
| 400MW Tandem Compound | | 10,225 | | | | | 8,767 | |
| 600MW Tandem Compound | | 9,994 | | | | | 8,500 | |

FIG. 51

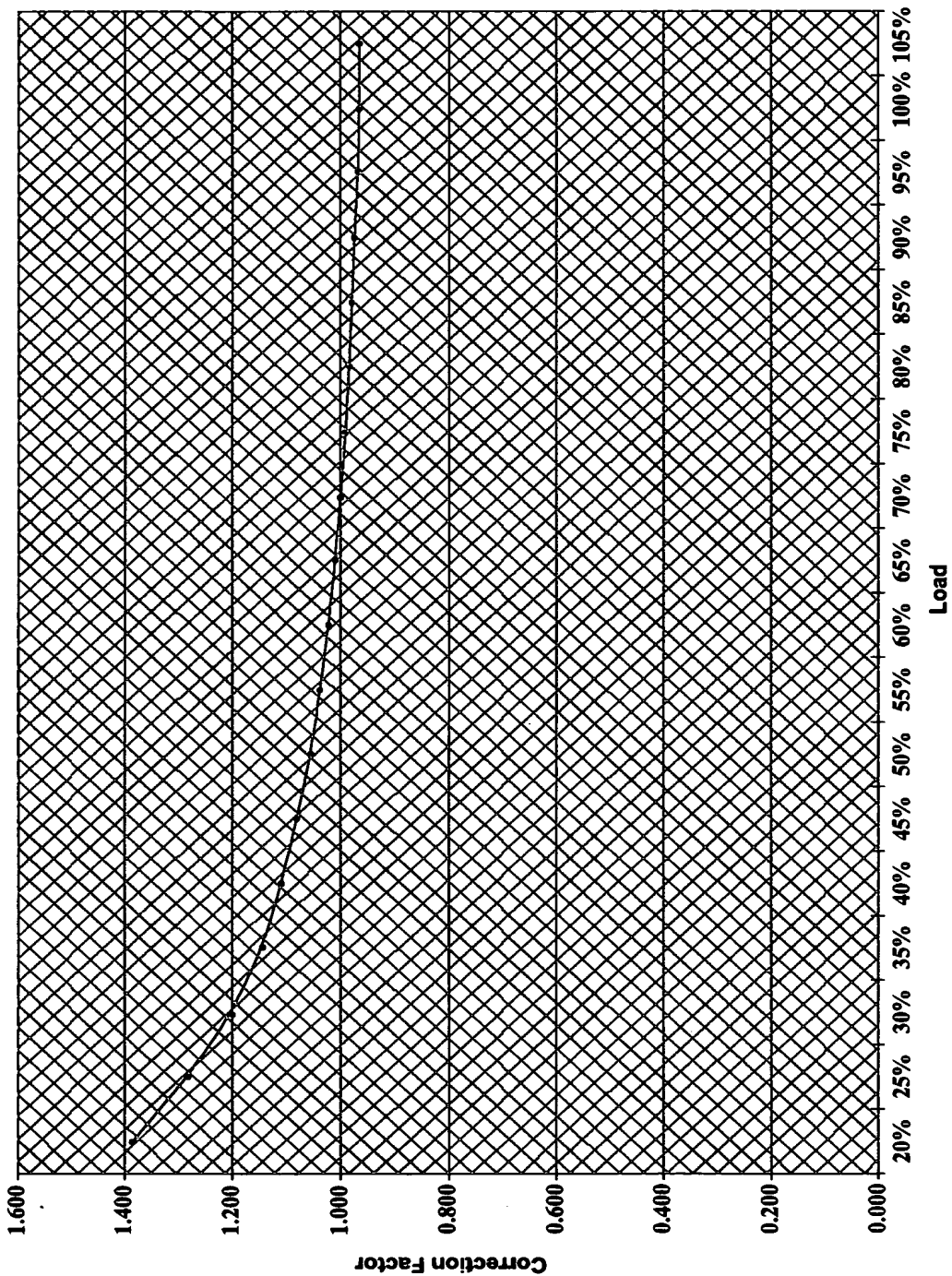
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| 0.67% | 0.72% | 0.78% | 0.83% | 0.89% | 0.94% | 1.00% | 1.06% | 1.11% | 1.17% |
|-----------|------------|------------|------------|-----------|------------|------------|------------|-----------|------------|
| 60% | 65% | 70% | 75% | 80% | 85% | 90% | 95% | 100% | 105% |
| 10,301 | 10,198 | 10,114 | 10,045 | 9,988 | 9,941 | 9,902 | 9,870 | 9,844 | 9,823 |
| 9,997 | 10,030 | 10,063 | 10,096 | 10,130 | 10,163 | 10,197 | 10,231 | 10,266 | 10,300 |
| 1,030 | 1,017 | 1,005 | 0,995 | 0,986 | 0,978 | 0,971 | 0,965 | 0,959 | 0,954 |
| 1.0473717 | 1.03715267 | 1.02693365 | 1.01671462 | 1.0064956 | 0.99627657 | 0.98605755 | 0.97583852 | 0.9656195 | 0.95540047 |
| 1.62% | 1.97% | 2.13% | 2.14% | 2.04% | 1.82% | 1.52% | 1.14% | 0.70% | 0.18% |
| 60% | 65% | 70% | 75% | 80% | 85% | 90% | 95% | 100% | 105% |
| | | | 8,133 | | | | | 8,036 | 8,010 |
| | | | 8,189 | | | | | 7,955 | 7,906 |
| | | | 8,210 | | | | | 7,964 | 7,911 |
| | | | 8,009 | | | | | 7,872 | 7,848 |

FIG. 52

-0.0817522
0.00444444
1.17

Steam Flow Correction Factor



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FIG. 53

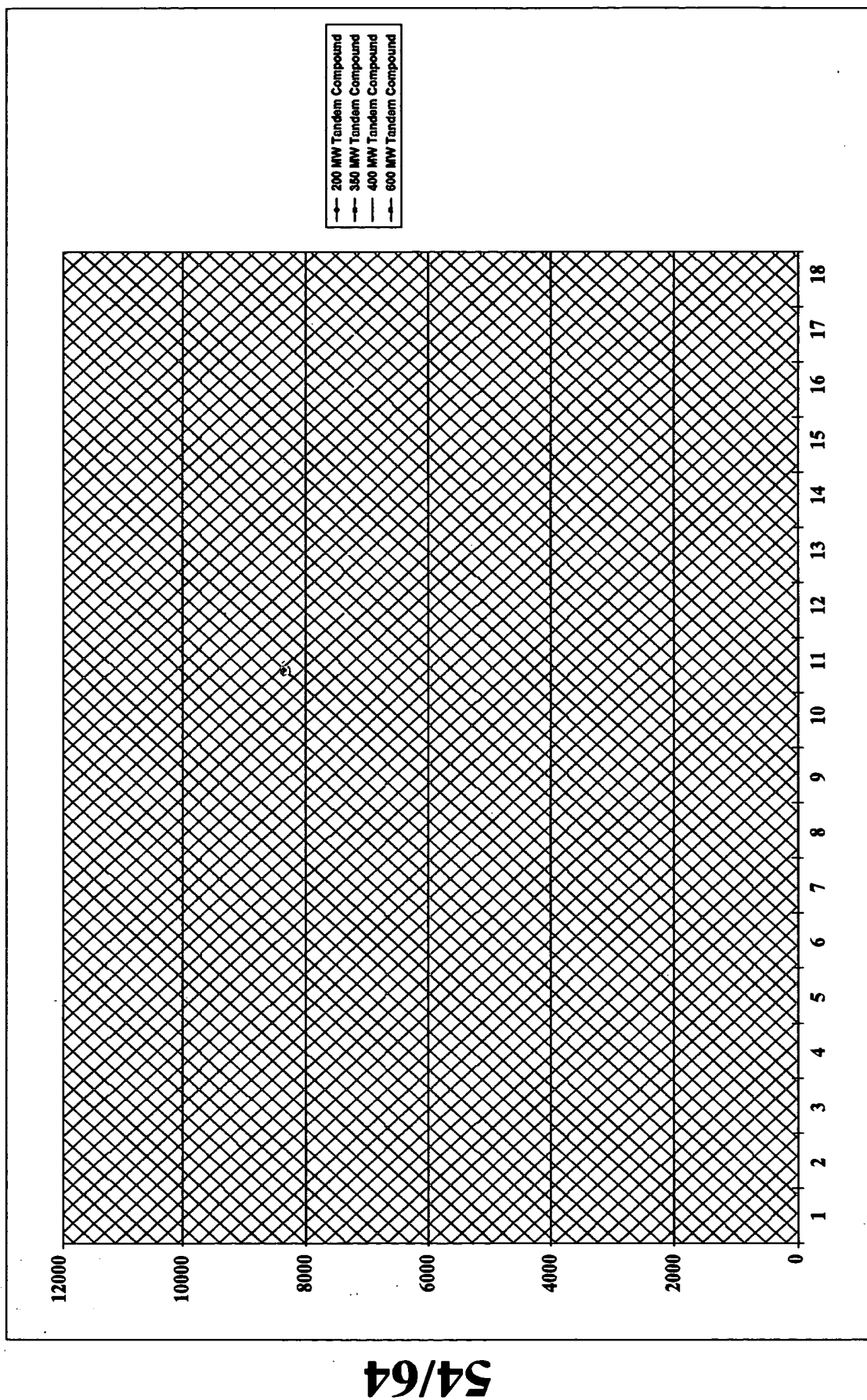


FIG. 54

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

| IE Dispatch Information: | | For Reference Only | | | | | | | | | |
|----------------------------|-----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| Average Capacity: | | 373 | | | | | | | | | |
| Capacity Factor | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | | |
| Calculated Capacity Factor | 83.70% | 85.00% | 71.30% | 69.60% | 67.50% | 68.10% | 67.10% | 68.00% | 67.90% | | |
| Availability | 90.00% | 90.00% | 90.00% | 88.03% | 87.78% | 87.78% | 87.78% | 87.78% | 87.78% | | |
| Average Load | 93.00% | 94.44% | 979.22% | 77.33% | 75.00% | 75.97% | 74.56% | 75.56% | 75.44% | | |
| Hours in Years | 8,760 | 8,760 | 8,784 | 8,760 | 8,760 | 8,760 | 8,760 | 8,760 | 8,760 | | |
| Hours Dispatched | 7,884 | 7,884 | 7,906 | 7,884 | 7,884 | 7,884 | 7,884 | 7,884 | 7,884 | | |
| Annual Output | 2,731,405 | 2,773,829 | 2,33,127 | 2,721,276 | 2,202,746 | 2,222,326 | 2,195,692 | 2,219,063 | 2,215,800 | | |
| Calculated Annual Output | 2,921,796 | 2,515,870 | 2,864,503 | 2,872,651 | 2,864,503 | 2,864,503 | 2,864,503 | 2,524,019 | 2,864,503 | | |

Major Outages

1

| Hours Available for Dispatched | | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|
| January | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 |
| February | 672 | 672 | 672 | 672 | 672 | 672 | 672 | 672 | 672 | 672 |
| March | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 |
| April | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 |
| May | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 |
| June | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 |
| July | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 |
| August | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 |
| September | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 |
| October | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 |
| November | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 |
| December | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 | 744 |
| Total | 8258 | 7248 | 8258 | 8280 | 8256 | 8256 | 8256 | 8258 | 8256 | 8256 |

| Hours Dispatched | | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| January | 744 | 692 | 692 | 692 | 692 | 692 | 692 | 692 | 692 | 692 |
| February | 672 | 625 | 625 | 647 | 625 | 625 | 625 | 647 | 625 | 625 |
| March | 240 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 | 226 |
| April | 720 | 677 | 677 | 677 | 677 | 677 | 677 | 677 | 677 | 677 |
| May | 744 | 707 | 707 | 707 | 707 | 707 | 707 | 707 | 707 | 707 |
| June | 720 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 |
| July | 744 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 |
| August | 744 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 | 714 |
| September | 720 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 |
| October | 744 | 0 | 707 | 707 | 707 | 707 | 707 | 707 | 707 | 707 |
| November | 720 | 429 | 677 | 677 | 429 | 677 | 677 | 429 | 677 | 677 |
| December | 744 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 |
| Total Hours Dispatched | 8258 | 6851 | 6851 | 7828 | 7806 | 7806 | 7806 | 6873 | 7806 | 7806 |
| Percentage of Available Hours | 100.00% | 94.52% | 94.54% | 94.54% | 94.54% | 94.54% | 94.54% | 94.54% | 94.54% | 94.54% |
| Percentage of Annual Hours | 94.25% | 78.20% | 89.10% | 89.1% | 89.10% | 89.10% | 89.10% | 89.10% | 89.10% | 89.10% |
| Average Annual Load | 95.00% | 98.58% | 98.51% | 98.51% | 98.51% | 98.51% | 98.51% | 98.58% | 98.51% | 98.51% |

FIG. 55

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| Unit 1 Dispatch Information: | | | | | | | |
|-----------------------------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| Hours Available for Dispatch | January-01 | February-01 | March-01 | April-01 | May-01 | June-01 | July-01 |
| Percentage of Hours Dispatched | 744 | 672 | 240 | 720 | 744 | 720 | 744 |
| Average Dispatched Load | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| Fuel Fired tons/hr | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |
| | 195.86 | 195.86 | 195.86 | 195.86 | 195.86 | 195.86 | 195.86 |
| Total Ash (100% up)- tons | 145,718 | 131,616 | 47,006 | 141,018 | 145,718 | 141,018 | 145,718 |
| Total Limestone (100% up)- tons | 8,015 | 7,239 | 2,585 | 7,756 | 8,015 | 7,756 | 8,015 |
| Total Flyash/Limestone Load- tons | 2,160 | 1,951 | 697 | 2,090 | 2,160 | 2,090 | 2,160 |
| Heat Rate Information: | 10,174 | 9,189 | 3,282 | 9,864 | 10,174 | 9,846 | 10,174 |
| Gross Generation | 263,301,377 | 237,820,598 | 84,935,928 | 254,807,784 | 263,301,377 | 254,807,784 | 263,301,377 |
| Unit 1 Gross Heat Rate- BTU/kWh: | 9,408 | 9,408 | 9,408 | 9,408 | 9,408 | 9,408 | 9,408 |
| Net Generation | 248,819,801 | 224,740,465 | 80,264,452 | 240,793,356 | 248,819,801 | 240,793,356 | 248,819,801 |
| Plant Net Heat Rate- BTU/kWh: | 9,956 | 9,956 | 9,956 | 9,956 | 9,956 | 9,956 | 9,956 |

| Unit 1 Dispatch Information: | | | | | | | |
|-----------------------------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| Hours Available for Dispatch | January-02 | February-02 | March-02 | April-02 | May-02 | June-02 | July-02 |
| Percentage of Hours Dispatched | 744 | 672 | 240 | 720 | 744 | 720 | 744 |
| Average Dispatched Load | 93.00% | 93.00% | 94.00% | 94.00% | 95.00% | 95.00% | 96.00% |
| Fuel Fired tons/hr | 98.00% | 98.00% | 97.00% | 98.00% | 98.00% | 99.00% | 100.00% |
| | 202.48 | 202.48 | 200.27 | 202.48 | 202.48 | 204.89 | 206.90 |
| Total Ash (100% up)- tons | 140,097 | 126,539 | 45,180 | 137,035 | 143,110 | 140,006 | 147,777 |
| Total Limestone (100% up)- tons | 7,705 | 6,960 | 2,485 | 7,537 | 7,871 | 7,700 | 8,128 |
| Total Flyash/Limestone Load- tons | 2,232 | 2,016 | 712 | 2,160 | 2,232 | 2,184 | 2,281 |
| Heat Rate Information: | 9,938 | 8,976 | 3,197 | 9,697 | 10,104 | 9,884 | 10,409 |
| Gross Generation | 252,603,026 | 228,157,572 | 81,520,610 | 247,083,085 | 258,035,349 | 252,259,706 | 266,072,970 |
| Unit 1 Gross Heat Rate- BTU/kWh: | 9,428 | 9,428 | 9,422 | 9,428 | 9,428 | 9,435 | 9,442 |
| Net Generation | 238,709,860 | 215,608,906 | 77,036,976 | 233,493,515 | 243,843,405 | 238,385,422 | 251,438,957 |
| Plant Net Heat Rate- BTU/kWh: | 9,977 | 9,977 | 9,970 | 9,977 | 9,977 | 9,984 | 9,991 |

FIG. 57

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FIG. 58

FIG. 58

| Unit 1 Dispatch Information: | | | | | | | |
|-----------------------------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| Hours Available for Dispatch | January-03 | February-03 | March-03 | April-03 | May-03 | June-03 | July-03 |
| Percentage of Hours Dispatched | 744 | 672 | 240 | 720 | 744 | 720 | 744 |
| Average Dispatched Load | 93.00% | 93.00% | 94.00% | 94.00% | 95.00% | 95.00% | 96.00% |
| Fuel Fired tons/hr | 98.00% | 98.00% | 97.00% | 98.00% | 98.00% | 99.00% | 100.00% |
| Total Ash (100% up)- tons | 202.48 | 202.48 | 200.27 | 202.48 | 202.48 | 204.89 | 206.90 |
| Total Limestone (100% up)- tons | 140,097 | 126,539 | 45,180 | 137,035 | 143,110 | 140,006 | 147,777 |
| Total Flyash/Limestone Load- tons | 7,705 | 6,960 | 2,485 | 7,537 | 7,871 | 7,700 | 8,128 |
| Heat Rate Information: | 2,232 | 2,016 | 712 | 2,160 | 2,232 | 2,184 | 2,281 |
| Gross Generation | 9,938 | 8,976 | 3,197 | 9,697 | 10,104 | 9,884 | 10,409 |
| Unit 1 Gross Heat Rate- BTU/kWh: | 252,603,026 | 228,157,572 | 81,520,610 | 247,083,085 | 258,035,349 | 252,259,706 | 266,072,970 |
| Net Generation | 9,428 | 9,428 | 9,422 | 9,428 | 9,428 | 9,435 | 9,442 |
| Plant Net Heat Rate- BTU/kWh: | 238,709,860 | 215,608,906 | 77,036,976 | 233,493,515 | 243,843,405 | 238,385,422 | 251,438,957 |
| | 9,977 | 9,977 | 9,970 | 9,977 | 9,977 | 9,984 | 9,991 |

| Unit 1 Dispatch Information: | | | | | | | |
|-----------------------------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| Hours Available for Dispatch | January-04 | February-04 | March-04 | April-04 | May-04 | June-04 | July-04 |
| Percentage of Hours Dispatched | 744 | 696 | 240 | 720 | 744 | 720 | 744 |
| Average Dispatched Load | 93.00% | 93.00% | 94.00% | 94.00% | 95.00% | 95.00% | 96.00% |
| Fuel Fired tons/hr | 98.00% | 98.00% | 97.00% | 98.00% | 98.00% | 99.00% | 100.00% |
| Total Ash (100% up)- tons | 202.48 | 202.48 | 200.27 | 202.48 | 202.48 | 204.89 | 206.90 |
| Total Limestone (100% up)- tons | 140,097 | 131,058 | 45,180 | 137,035 | 143,110 | 140,006 | 147,777 |
| Total Flyash/Limestone Load- tons | 7,705 | 7,208 | 2,485 | 7,537 | 7,871 | 7,700 | 8,128 |
| Heat Rate Information: | 2,232 | 2,088 | 712 | 2,160 | 2,232 | 2,184 | 2,281 |
| Gross Generation | 9,938 | 9,297 | 3,197 | 9,697 | 10,104 | 9,884 | 10,409 |
| Unit 1 Gross Heat Rate- BTU/kWh: | 252,603,026 | 236,306,057 | 81,520,610 | 247,083,085 | 258,035,349 | 252,259,706 | 266,072,970 |
| Net Generation | 9,428 | 9,428 | 9,422 | 9,428 | 9,428 | 9,435 | 9,442 |
| Plant Net Heat Rate- BTU/kWh: | 238,709,860 | 223,309,224 | 77,036,976 | 233,493,515 | 243,843,405 | 238,385,422 | 251,438,957 |
| | 9,977 | 9,977 | 9,970 | 9,977 | 9,977 | 9,984 | 9,991 |

FIG. 59

| August-03 | | September-03 | | October-03 | | November-03 | | December-03 | | 2003 | |
|-------------|--|--------------|--|-------------|--|-------------|--|-------------|--|-----------------------------------|---------------|
| 744 | | 720 | | 744 | | 720 | | 744 | | Gross Capacity Factor: | 87.78% |
| 96.00% | | 95.00% | | 95.00% | | 94.00% | | 94.00% | | | |
| 100.00% | | 99.00% | | 98.00% | | 98.00% | | 98.00% | | | |
| 206.90 | | 204.89 | | 202.48 | | 202.48 | | 202.48 | | Fuel Fired | 2,440.77 |
| 147,777 | | 140,006 | | 143,110 | | 137,035 | | 141,603 | | tons/hr | 1,589,275 |
| 8,128 | | 7,700 | | 7,871 | | 7,537 | | 7,788 | | Total Ash (100% up)- tons | 87,410 |
| 2,281 | | 2,184 | | 2,232 | | 2,160 | | 2,232 | | Total Limestone- tons | 24,910 |
| 10,409 | | 9,884 | | 10,104 | | 9,697 | | 10,021 | | Total Flyash/Limestone Load- tons | 112,321 |
| 266,072,970 | | 252,259,706 | | 258,035,349 | | 247,083,085 | | 255,319,188 | | Gross Generation | 2,864,502,616 |
| 9,442 | | 9,435 | | 9,428 | | 9,428 | | 9,428 | | Unit 1 Gross Heat Rate- BTU/kWh: | 9,432 |
| 251,438,957 | | 238,385,422 | | 243,843,405 | | 233,493,515 | | 241,276,632 | | Net Generation | 2,706,954,973 |
| 9,991 | | 9,934 | | 9,977 | | 9,977 | | 9,977 | | Plant Net Heat Rate- BTU/kWh: | 9,981 |
| August-04 | | September-04 | | October-04 | | November-04 | | December-04 | | 2004 | |
| 744 | | 720 | | 744 | | 720 | | 744 | | Gross Capacity Factor: | 88.03% |
| 96.00% | | 95.00% | | 95.00% | | 94.00% | | 94.00% | | | |
| 100.00% | | 99.00% | | 98.00% | | 98.00% | | 98.00% | | | |
| 206.90 | | 204.89 | | 202.48 | | 202.48 | | 202.48 | | Fuel Fired | 2,440.77 |
| 147,777 | | 140,006 | | 143,110 | | 137,035 | | 141,603 | | tons | 1,589,275 |
| 8,128 | | 7,700 | | 7,871 | | 7,537 | | 7,788 | | Total Ash (100% up)- tons | 87,410 |
| 2,281 | | 2,184 | | 2,232 | | 2,160 | | 2,232 | | Total Limestone- tons | 24,910 |
| 10,409 | | 9,884 | | 10,104 | | 9,697 | | 10,021 | | Total Flyash/Limestone Load- tons | 112,321 |
| 266,072,970 | | 252,259,706 | | 258,035,349 | | 247,083,085 | | 255,319,188 | | Gross Generation | 2,864,502,616 |
| 9,442 | | 9,435 | | 9,428 | | 9,428 | | 9,428 | | Unit 1 Gross Heat Rate- BTU/kWh: | 9,432 |
| 251,438,957 | | 238,385,422 | | 243,843,405 | | 233,493,515 | | 241,276,632 | | Net Generation | 2,706,954,973 |
| 9,991 | | 9,934 | | 9,977 | | 9,977 | | 9,977 | | Plant Net Heat Rate- BTU/kWh: | 9,981 |

60/64

FIG. 60

61/64

| <u>Unit 1 Dispatch Information:</u> | | <u>January-05</u> | <u>February-05</u> | <u>March-05</u> | <u>April-05</u> | <u>May-05</u> | <u>June-05</u> | <u>July-05</u> |
|-------------------------------------|--|-------------------|--------------------|-----------------|-----------------|---------------|----------------|----------------|
| Hours Available for Dispatch | | 744 | 672 | 240 | 720 | 744 | 720 | 744 |
| Percentage of Hours Dispatched | | 93.00% | 93.00% | 94.00% | 94.00% | 95.00% | 95.00% | 96.00% |
| Average Dispatched Load | | 98.00% | 98.00% | 97.00% | 98.00% | 98.00% | 99.00% | 100.00% |
| Fuel Fired tons/hr | | 202.48 | 202.48 | 200.27 | 202.48 | 202.48 | 204.89 | 206.90 |
| Total Ash (100% up)- tons | | 140,097 | 126,539 | 45,180 | 137,035 | 143,110 | 140,006 | 147,777 |
| Total Limestone (100% up)- tons | | 7,705 | 6,960 | 2,485 | 7,537 | 7,871 | 7,700 | 8,128 |
| Total Flyash/Limestone Load- tons | | 2,232 | 2,016 | 712 | 2,160 | 2,232 | 2,184 | 2,281 |
| Heat Rate Information: | | 9,938 | 8,976 | 3,197 | 9,697 | 10,104 | 9,884 | 10,409 |
| Gross Generation | | 252,603,026 | 228,157,572 | 81,520,610 | 247,083,085 | 258,035,349 | 252,259,706 | 266,072,970 |
| Unit 1 Gross Heat Rate- BTU/kWh: | | 9,428 | 9,428 | 9,422 | 9,428 | 9,428 | 9,435 | 9,442 |
| Net Generation | | 238,709,860 | 215,608,906 | 77,036,976 | 233,493,515 | 243,843,405 | 238,385,422 | 251,438,957 |
| Plant Net Heat Rate- BTU/kWh: | | 9,977 | 9,977 | 9,970 | 9,977 | 9,977 | 9,984 | 9,991 |

FIG. 61

62/64

| August-05 | September-05 | October-05 | November-05 | December-05 | Gross Capacity Factor: | 2005 |
|-------------|--------------|-------------|-------------|-------------|-----------------------------------|---------------|
| 744 | 720 | 744 | 720 | 744 | | 87.78% |
| 96.00% | 95.00% | 95.00% | 94.00% | 94.00% | | |
| 100.00% | 99.00% | 98.00% | 98.00% | 98.00% | | |
| 206.90 | 204.89 | 202.48 | 202.48 | 202.48 | Fuel Fired | 2,440.77 |
| 147,777 | 140,006 | 143,110 | 137,035 | 141,603 | tons/hr | 1,589,275 |
| 8,128 | 7,700 | 7,871 | 7,537 | 7,788 | tons | 87,410 |
| 2,281 | 2,184 | 2,232 | 2,160 | 2,232 | Total Ash (100% up)- tons | 24,910 |
| 10,409 | 9,884 | 10,104 | 9,697 | 10,021 | Total Limestone- tons | 112,321 |
| | | | | | Total Flyash/Limestone Load- tons | |
| 266,072,970 | 252,259,706 | 258,035,349 | 247,083,085 | 255,319,188 | Gross Generation | 2,864,502,616 |
| 9,442 | 9,435 | 9,428 | 9,428 | 9,428 | Unit 1 Gross Heat Rate- BTU/kWh: | 9,432 |
| 251,438,957 | 238,385,422 | 243,843,405 | 233,493,515 | 241,276,632 | Net Generation | 2,706,954,973 |
| 9,991 | 9,934 | 9,977 | 9,977 | 9,977 | Plant Net Heat Rate- BTU/kWh: | 9,981 |

FIG. 62

63/64

| | |
|---|-------------|
| Assumed Tax (per ton of Carbon): | \$40 |
|---|-------------|

| | | Sub- Bituminous |
|--|--------------------|----------------------------|
| Facility Net Heat Rate (HHV): | BTU/KWH | 9,956 |
| HHV of Coal: | BTU/# | 8,500 |
| Percent Carbon in Coal (WT) | | 48.30% |
| Unit Capacity: | MW | 373 |
| Carbon Loss: | | 0.25% |
| Molecular Weight of Carbon | | 12.01 |
| Molecular Weight of O2 | | 32.00 |
| Price per MMBtu from Coal | | 1.11 |
| Price per Ton of Coal (delivered) | per Ton | \$30.00 |
| | | |
| Net KWH Produced: | | 2,761,097,147 |
| Coal Fired | Tons | 1,617,002 |
| | | |
| Carbon in Flue Gas | Tons | 781,012 |
| CO2 | Tons | 2,861,804 |
| Fuel Cost: | Total | \$48,631,344 |
| | \$/kwh | \$0.0176 |
| | | |
| | Carbon Tax: | \$31,240,484 |
| | per KWH | \$0.0113 |
| | per MMBtu | \$1.14 |

Tons CO2/kWh

0.001036473

FIG. 63

106080" 2282360

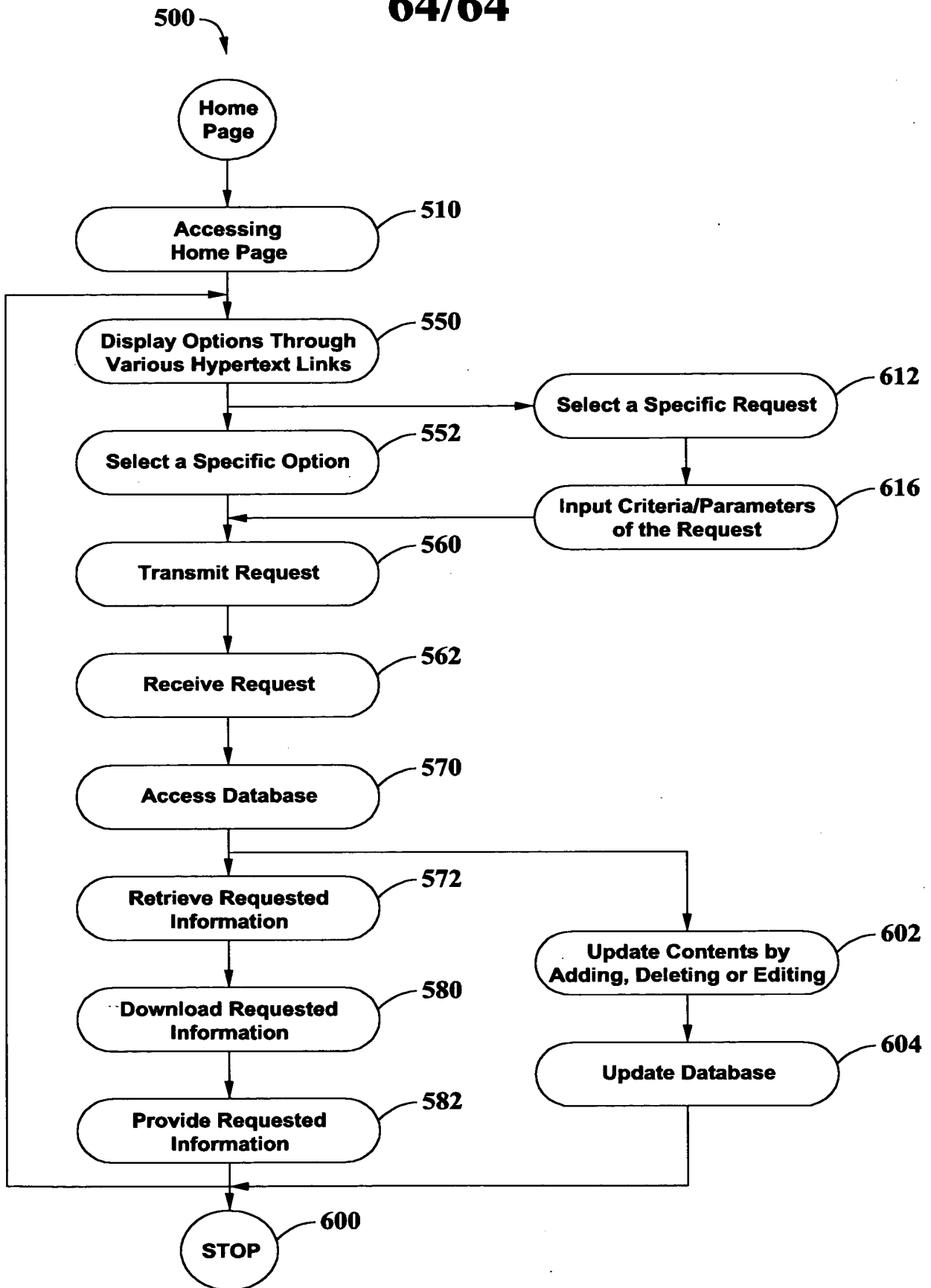


FIG. 64